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GOEWERMENSKENNISGEWINGS

ADMINISTRASIE: VOLKSRAAD DEPARTEMENT VAN LANDBOU EN WATEROORSIENING

No. R. 2661

4 Desember 1987

MIDDEL - UMGENI - BESPROEIINGSDISTRIK, DISTRIK LIONSRIVIER, NATAL.—INSTELLING

Kragtens die bevoegdheid my verleen by artikel 72 (3) (a) van die Waterwet, 1956 (Wet 54 van 1956), soos gewysig by artikel 12 van Wet 97 van 1986, verklaar ek, Jacob Albertus van Wyk, in my hoedanigheid van Adjunk-minister van Watervoorsiening, dat die gebied beskryf in die Aanhangel hiervan, 'n besproeiingsdistrik met 'n besproeiingsraad uitmaak wat as die Middel-Umgani-besproeiingsdistrik en die Middel-Umgani-besproeiingsraad bekend staan.

J. A. VAN WYK,

Adjunk-minister van Watervoorsiening.

AANHANGSEL

BESKRYWING VAN DIE EIENDOMME WAT DIE
MIDDEL-UMGENI-BESPROEIINGSDISTRIK, DIS-
TRIK LIONSRIVIER, NATAL, UITMAAK

Bosch Hoek 1217.

Broeders Hoek 793.

Cramond 1803.

Eweni 15381.

Gedeeltes 3, 4, 13, 14, 15, 16, 17, 18, 23, 27, 32 en 33
van die plaas Hilton 12304.

Khaya Lami 14941.

Lot 34 866.

Malden 13797.

Otto's Bluff 13012.

Richmond Hill 794.

Roode Spruit 960.

Saxony 14942.

Shooters Hill 908.

Spurwing 14537.

Westward 14739.

Zeekoe Hoek 968.

GOVERNMENT NOTICES

ADMINISTRATION: HOUSE OF ASSEMBLY

DEPARTMENT OF AGRICULTURE AND WATER SUPPLY

No. R. 2661

4 December 1987

MIDDLE UMGENI IRRIGATION DISTRICT, DISTRICT OF LIONS RIVER, NATAL.—ESTABLISHMENT

By virtue of the powers vested in me by section 72 (3) (a) of the Water Act, 1956 (Act 54 of 1956), as amended by section 12 of Act 97 of 1986, I, Jacob Albertus van Wyk, in my capacity as Deputy Minister of Water Supply, hereby declare the area described in the Annexure hereto to be an irrigation district with an irrigation board which shall be known as the Middle Umgani Irrigation District and the Middle Umgani Irrigation Board.

J. A. VAN WYK,

Deputy Minister of Water Supply.

ANNEXURE

DESCRIPTION OF THE PROPERTIES CONSTITUTING
THE MIDDLE UMGENI IRRIGATION DISTRICT,
DISTRICT OF LIONS RIVER, NATAL

Bosch Hoek 1217.

Broeders Hoek 793.

Cramond 1803.

Eweni 15381.

Portions 3, 4, 13, 14, 15, 16, 17, 18, 23, 27, 32 and 33
of the farm Hilton 12304.

Khaya Lami 14941.

Lot 34 866.

Malden 13797.

Otto's Bluff 13012.

Richmond Hill 794.

Roode Spruit 960.

Saxony 14942.

Shooters Hill 908.

Spurwing 14537.

Westward 14739.

Zeekoe Hoek 968.

DEPARTEMENT VAN FINANSIES**No. R. 2662****4 Desember 1987**

DOEANE- EN AKSYNSWET, 1964

WYSIGING VAN BYLAE 1 (No. 1/2/79)

Kragtens artikel 48 van die Doeane- en Aksynswet, 1964, word Deel 2 van Bylae 1 by genoemde Wet hiermee gewysig in die mate in die Bylae hiervan aangetoon.

G. MARAIS,
Adjunk-minister van Finansies.

DEPARTMENT OF FINANCE**No. R. 2662****4 December 1987**

CUSTOMS AND EXCISE ACT, 1964

AMENDMENT OF SCHEDULE 1 (No. 1/2/79)

Under section 48 of the Customs and Excise Act, 1964, Part 2 of Schedule 1 to the said Act is hereby amended to the extent set out in the Schedule hereto.

G. MARAIS,
Deputy Minister of Finance.

BYLAE

I Tarief- item	II Tariefpos en Beskrywing	III IV Skaal van Reg	
		Aksyns	Doeane
118.10	Deur tariefitem 118.10 deur die volgende te vervang: "118.10 33.06 Parfumerie, skoonheids- of toiletpreparate (uitgesonderd pastas en ander intermediêre produkte, nie vir kleinhandelverkoop bemark nie, "agarbatti" en ander welriekende preparate wat deur verbranding werk, beskermingroom en dergelike preparate vir beskerming van die vel teen prikkelmiddels in onmiddellike verpakkings met 'n inhoud van minstens 5 kg, tandepoeiers, -pastas en -wasmiddels, skeerroom en babapoeiers)	35%	35%"

Opmerking.—Tariefitem 118.10/33.06 word herbewoord om die trefwydte daarvan bo alle twyfel te stel.

SCHEDULE

I Tariff Item	II Tariff Heading and Description	III IV Rate of Duty	
		Excise	Customs
118.10	By the substitution for tariff item 118.10 of the following: "118.10 33.06 Perfumery, cosmetic or toilet preparations (excluding pastes and other intermediate products, not put up for sale by retail, "agarbatti" and other odoriferous preparations which operate by burning, barrier cream and similar preparations for protecting the skin against irritants in immediate packings of a content of 5 kg or more, tooth powders, pastes and washes, shaving creams and baby powders)	35%	35%"

Note.—Tariff item 118.10/33.06 is reworded to put the scope thereof beyond any doubt.

No. R. 2663**4 Desember 1987**

DOEANE- EN AKSYNSWET, 1964

WYSIGING VAN BYLAE 3 (No. 3/930)

Kragtens artikel 75 van die Doeane- en Aksynswet, 1964, word Bylae 3 by genoemde Wet hiermee gewysig, met terugwerkende krag tot 14 Augustus 1987, in die mate in die Bylae hiervan aangetoon.

G. MARAIS,
Adjunk-minister van Finansies.

No. R. 2663**4 December 1987**

CUSTOMS AND EXCISE ACT, 1964

AMENDMENT OF SCHEDULE 3 (No. 3/930)

Under section 75 of the Customs and Excise Act, 1964, Schedule 3 to the said Act is hereby amended, with retrospective effect to 14 August 1987, to the extent set out in the Schedule hereto.

G. MARAIS,
Deputy Minister of Finance.

BYLAE

I Korting- item	II			III Mate van Korting
	Tarief- pos	Korting- kode	Beskrywing	
311.22	60.01	01.00 48	Deur na tariefpos No. 59.08 die volgende in te voeg: Brei- of hekelstowwe, vir die vervaardiging van onderklere	Volle reg"

Opmerking.—Die uitwerking van hierdie wysiging is dat voorsiening gemaak word vir 'n volle korting op reg op brei- of hekelstowwe, vir die vervaardiging van onderklere vir babas, met terugwerkende krag tot 14 Augustus 1987.

SCHEDULE

I Rebate Item	II			III Extent of Rebate
	Tariff Heading	Rebate Code	Description	
311.22	60.01	01.00 48	By the insertion after tariff heading No. 59.08 of the following: Knitted or crocheted fabrics, for the manufacture of under garments	Full duty"

Note.—The effect of this amendment is that provision is made for a rebate of the full duty on knitted or crocheted fabrics, for the manufacture of infants under garments, with retrospective effect to 14 August 1987.

No. R. 2664

4 Desember 1987

DOEANE- EN AKSYNSWET, 1964
WYSIGING VAN BYLAE 1 (No. 1/1/1342)

Kragtens artikel 48 van die Doeane- en Aksynswet, 1964, word Deel 1 van Bylae 1 by genoemde Wet hiermee gewysig in die mate in die Bylae hiervan aangetoon.

G. MARAIS,
Adjunk-minister van Finansies.

No. R. 2664

4 December 1987

CUSTOMS AND EXCISE ACT, 1964
AMENDMENT OF SCHEDULE 1 (No. 1/1/1342)

Under section 48 of the Customs and Excise Act, 1964, Part 1 of Schedule 1 to the said Act is hereby amended to the extent set out in the Schedule hereto.

G. MARAIS,
Deputy Minister of Finance

BYLAE

I Tariefpos	II Statistiese Eenheid	III Skaal van Reg		IV
		Algemeen	M.B.N.	
33.04 Deur tariefpos No. 33.04 deur die volgende te vervang: "33.04 Mengsels van twee of meer welriekende stowwe (natuurlik of kunsmatig) en mengsels (met inbegrip van alkoholiese oplossings) met 'n basis van een of meer van sodanige stowwe, van 'n soort wat as grondstowwe in die parfumerie-, die voedsel-, die drank- of ander nywerhede gebruik word:				
33.04.05 Van 'n soort in die voedsel- of dranknywerhede gebruik:				
.10 Wat, volgens volume, minstens 50 persent etiel- of propielalkohol bevat	liter	25%		
.90 Ander	kg	vry		
33.04.90 Ander:				
.10 Wat, volgens volume, minstens 50 persent etiel- of propielalkohol bevat (uitgesonderd parfuumbasisse)	liter	25%		
.20 Parfuumbasisse in alkohol	liter	15% plus 90c per liter		
.80 Ander, van 'n soort in die parfumerienywerheid gebruik	kg	vry		
.90 Ander	kg	vry"		

Opmerkings.—1. Die afsonderlike voorsiening vir vitiverol word geskrap.
2. Tariefpos No. 33.04 word herskryf om die oorskakeling na die Geharmonieerde Stelsel te vergemaklik.

SCHEDULE

I Tariff Heading	II Statistical Unit	III Rate of Duty		IV
		General	M.F.N.	
33.04 By the substitution for tariff heading No. 33.04 of the following: "33.04 Mixtures of two or more odoriferous substances (natural or artificial) and mixtures (including alcoholic solutions) with a basis of one or more of these substances, of a kind used as raw materials in the perfumery, the food, the drink or other industries:				
33.04.05 Of a kind used in food or drink industries:				
.10 Containing, by volume, 50 per cent or more ethyl or propyl alcohol	litre	25%		
.90 Other	kg	free		
33.04.90 Other:				
.10 Containing, by volume, 50 per cent or more ethyl or propyl alcohol (excluding perfume bases)	litre	25%		
.20 Perfume bases in alcohol	litre	15% plus 90c per litre		
.80 Other of a kind used in the perfumery industry	kg	free		
.90 Other	kg	free"		

Notes.—1. The separate provision for vitiverol is deleted.
2. Tariff heading No. 33.04 is restated to facilitate the change-over to the Harmonized System.

No. R. 2665

4 Desember 1987

DOEANE- EN AKSYNSWET, 1964

WYSIGING VAN BYLAE 1 (No. 1/1/1341)

Kragtens artikel 48 van die Doeane- en Aksynswet, 1964, word Deel 1 van Bylae 1 by genoemde Wet hiermee gewysig in die mate in die Bylae hiervan aangetoon.

G. MARAIS,
Adjunk-minister van Finansies.

No. R. 2665

4 December 1987

CUSTOMS AND EXCISE ACT, 1964

AMENDMENT OF SCHEDULE 1 (No. 1/1/1341)

Under section 48 of the Customs and Excise Act, 1964, Part 1 of Schedule 1 to the said Act is hereby amended to the extent set out in the Schedule hereto.

G. MARAIS,
Deputy Minister of Finance.

BYLAE

I Tariefpos	II Statistiese Eenheid	III IV Skaal van Reg	
		Algemeen	M.B.N.
84.59 Deur subpos No. 84.59.55 deur die volgende te vervang: "84.59.55 Klepaandrywers wat nie elektriese motore inkorporeer nie	getal	vry"	
85.01 Deur die opskrif van subpos No. 85.01.13 deur die volgende te vervang: "Elektriese motore, ws., naamlik motore gemerk of uitkenbaar as vlamvas of plofvry, dompelmotore, kommutatormotore, sinchroommotore, repulsie-induksiemotore en wringmotore:"			
Deur subpos No. 85.01.13.20 deur die volgende te vervang: ".20 Wringmotore, van minstens 0,03 kW maar minder as 0,75 kW, enkel-fasig	getal	5%"	
Deur na subpos No. 85.01.13.30 die volgende in te voeg: ".40 Klepaandrywers, synde 'n masjien bestaande uit 'n geratte elektriese motor wat met 'n klepaandrywertoeestel toegerus is, hetsy dit 'n handtoestel insluit al dan nie	getal	5%"	

- Opmerkings.*—1. Subpos No. 84.59.55 word herskryf om dit duidelik te stel dat hierdie voorsiening slegs klepaandrywers wat nie elektriese motore inkorporeer nie, insluit.
2. Die posisie met betrekking tot elektriese motore wat met klepaandrywers toegerus is, word meer duidelik gestel.
3. Afsonderlike voorsiening word gemaak vir klepaandrywers, synde 'n masjien bestaande uit 'n geratte elektriese motor wat met 'n klepaandrywertoeestel toegerus is, hetsy dit 'n handtoestel insluit al dan nie, teen 'n skaal van reg van 5%.

SCHEDULE

I Tariff Heading	II Statistical Unit	III IV Rate of Duty	
		General	M.F.N.
84.59 By the substitution for subheading No. 84.59.55 of the following: "84.59.55 Valve actuators not incorporating electric motors	no.	free"	
85.01 By the substitution for the heading of subheading No. 85.01.13 of the following: "Electric motors, a.c., namely, motors marked or identifiable as flame-proof or explosion-proof, submersible motors, commutator motors, synchronous motors and torque motors:"			
By the substitution for subheading No. 85.01.13.20 of the following: ".20 Torque motors, of 0,03 kW or more but less than 0,75 kW, single-phase	no.	5%"	
By the insertion after subheading No. 85.01.13.30 of the following: ".40 Valve actuators, being a machine comprising a geared electric motor fitted with a valve actuating device whether or not incorporating a manual device	no.	5%"	

- Notes.*—1. Subheading No. 84.59.55 is restated to make it clear that this provision covers only valve actuators not incorporating electric motors.
2. The position with regard to electric motors fitted with valve actuators is more clearly stated.
3. Separate provision is made for valve actuators, being a machine comprising a geared electric motor fitted with a valve actuating device whether or not incorporating a manual device, at a rate of duty of 5%.

No. R. 2669

4 Desember 1987

DOEANE- EN AKSYNSWET, 1964

WYSIGING VAN BYLAE 3 (No. 3/931)

Kragtens artikel 75 van die Doeane- en Aksynswet, 1964—

1. word Bylae 3 by genoemde Wet hiermee gewysig in die mate in die Bylae hiervan aangetoon, en
2. word hierdie wysiging, vir sover dit betrekking het op die goedere gemeld in paragraaf (18) van tariefpos No. 87.06 in die Opmerking by kortingitem 317.03, geag op 1 Junie 1983 in werking te getree het.

G. MARAIS,
Adjunk-minister van Finansies.

No. R. 2669

4 December 1987

CUSTOMS AND EXCISE ACT, 1964

AMENDMENT OF SCHEDULE 3 (No. 3/931)

Under section 75 of the Customs and Excise Act, 1964—

1. Schedule 3 to the said Act is hereby amended to the extent set out in the Schedule hereto, and
2. this amendment, is so far as it relates to the goods specified in paragraph (18) of tariff heading No. 87.06 in the Note to rebate item 317.03, shall be deemed to have come into operation on 1 June 1983.

G. MARAIS,
Deputy Minister of Finance.

BYLAE

I Korting- item	II			III Mate van Korting
	Tarief- pos	Korting- kode	Beskrywing	
317.03			Deur paragraaf (2) van tariefpos No. 87.06 in die Opmerking deur die volgende te vervang: “(2) Verwarmers en ventileereenhede, met of sonder lugverkoelingsonderdele, van die waaier- of ramtype, en onderdele daarvan, vervaardig van metaal of kunspatiekstof (uitgesonderd sierroosters, ventileergange en neusstukke vir ontvriestoele en verwarmers), vir motorvoertuie met waterverkoelde enjins” Deur paragraaf (15) van tariefpos No. 87.06 in die Opmerking deur die volgende te vervang: “(15) Skokbrekers vir veringstelsels” Deur paragraaf (18) van tariefpos No. 87.06 in die Opmerking deur die volgende te vervang: “(18) Gewrigskoppelings, kruisspiltipe, vir wieldryfasse, behalwe wanneer ingevoer vir minibusse en ander gespesialiseerde passasiersvoertuie en ligte vragvoertuie, uitgesonderd toepaneelwaens en eenheidsgeboude bakkies, met 'n dravermoë van hoogstens 1 270 kg”	

Opmerkings.—1. Die uitwerking van hierdie kennisgewing is dat die trefwydte van kortingitem 317.03 duideliker omskryf word.

2. Hierdie kennisgewing het terugwerkende krag tot 1 Julie 1983 vir sover dit betrekking het op die goedere gemeld in paragraaf (18) van tariefpos No. 87.06.

SCHEDULE

I Rebate Item	II			III Extent of Rebate
	Tariff Heading	Rebate Code	Description	
317.03			By the substitution for paragraph (2) of tariff heading No. 87.06 in the Note of the following: “(2) Heaters and ventilating units, with or without parts of air conditioners, of the blower type or ram type, and parts thereof, manufactured from metal or artificial plastic material (excluding grills, ventilating ducts and nozzles for defrosters and heaters), for motor vehicles with water-cooled engines” By the substitution for paragraph (15) of tariff heading No. 87.06 in the Note of the following: “(15) Shock absorbers for spring systems” By the substitution for paragraph (18) of tariff heading No. 87.06 in the Note of the following: “(18) Universal joints, cross-journal type, for driving wheel axles, except when imported for minibuses and other specialised passenger vehicles and light goods vehicles, excluding closed panel vans and monobuilt trucks, of a carrying capacity not exceeding 1 270 kg”	

Notes.—1. The effect of this notice is that the scope of rebate item 317.03 is defined more clearly.

2. This notice has retrospective effect to 1 June 1983 in so far as it relates to the goods mentioned in paragraph (18) of tariff heading No. 87.06.

No. R. 2670

4 Desember 1987

DOEANE- EN AKSYNSWET, 1964

WYSIGING VAN BYLAE 3 (No. 3/932)

Kragtens artikel 75 van die Doeane- en Aksynswet, 1964, word Bylae 3 by genoemde Wet hiermee gewysig in die mate in die Bylae hiervan aangetoon.

G. MARAIS,
Adjunk-minister van Finansies.

No. R. 2670

4 December 1987

CUSTOMS AND EXCISE ACT, 1964

AMENDMENT OF SCHEDULE 3 (No. 3/932)

Under section 75 of the Customs and Excise Act, 1964, Schedule 3 to the said Act is hereby amended to the extent set out in the Schedule hereto.

G. MARAIS,
Deputy Minister of Finance.

BYLAE

I Korting- item	II			III Mate van Korting
	Tarief- pos	Korting- kode	Beskrywing	
318.02	44.15	01.00 41	Deur voor tariefpos No. 83.02 die volgende in te voeg: Laaghout met 'n dikte van hoogstens 4 mm (uitgesonderd laag- hout van els- of berkehout), vir die vervaardiging van kitare	Volle reg

Opmerking.—Voorsiening word gemaak vir 'n volle korting op reg op laaghout met 'n dikte van hoogstens 4 mm (uitgesonderd laaghout van els- of berkehout), vir die vervaardiging van kitare.

SCHEDULE

I Rebate Item	II			III Extent of Rebate
	Tariff Heading	Rebate Code	Description	
318.02	44.15	01.00 41	By the insertion before tariff heading No. 83.02 of the following: Plywood of a thickness not exceeding 4 mm (excluding plywood of alder or birch wood), for the manufacture of guitars	Full duty

Note.—Provision is made for a rebate of the full duty on plywood of a thickness not exceeding 4 mm (excluding plywood of alder or birch wood), for the manufacture of guitars.

No. R. 2671

4 Desember 1987

DOEANE- EN AKSYNSWET, 1964

WYSIGING VAN BYLAE 4 (No. 4/421)

Kragtens artikel 75 van die Doeane- en Aksynswet, 1964, word Bylae 4 by genoemde Wet hiermee gewysig in die mate in die Bylae hiervan aangetoon.

G. MARAIS,
Adjunk-minister van Finansies.

No. R. 2671

4 December 1987

CUSTOMS AND EXCISE ACT, 1964

AMENDMENT OF SCHEDULE 4 (No. 4/421)

Under section 75 of the Customs and Excise Act, 1964, Schedule 4 to the said Act is hereby amended to the extent set out in the Schedule hereto.

G. MARAIS,
Deputy Minister of Finance.

BYLAE

I Item	II Tariefpos en Beskrywing	III Mate van Korting
412.21	Deur item 412.21 te skrap.	

Opmerking.—Die voorsiening vir 'n korting op reg op sardientjies (met inbegrip van sprutte, 'brisling'-sardientjies en 'sild'-sardientjies) en salm (uitgesonderd "lax"), in lugdigte metaalhouers, word ingetrek.

SCHEDULE

I Item	II Tariff Heading and Description	III Extent of Rebate
412.21	By the deletion of item 412.21.	

Note.—The provisions for a rebate of duty on sardines (including sprats, brisling sardines and sild sardines) and salmon (excluding lax), in airtight metal containers, is withdrawn.

VERBETERINGSKENNISGEWING**No. R. 2672****4 Desember 1987**DOEANE- EN AKSYNSWET, 1964
WYSIGING VAN BYLAE 1

Die besonderhede wat op bladsy 82-10 van die Engelse teks van *Staatskoerant* 10865, Goewermentskennisgewing R. 2228 van 6 November 1987 moet soos in die Bylae hierby uiteengesit, lees.

CORRECTION NOTICE**No. R. 2672****4 December 1987**CUSTOMS AND EXCISE ACT, 1964
AMENDMENT OF SCHEDULE 1

The particulars appearing on page 82-10 of *Government Gazette* 10865, Government Notice R. 2228 of 6 November 1987 should read as set out in the Schedule hereto.

BYLAE/SCHEDULE**82-10**

HEAD=ING	SUBHEADING	C.D.	ARTICLE DESCRIPTION	STATIS=TICAL UNIT	RATE OF DUTY	ANNO=ATIONS
	8215.9		Other:			
	8215.91		Plated with precious metal:			
	.10	5	Spoons and forks (excluding those plated with gold)	no.	20%	
	.90	3	Other	no.	30%	
	8215.99		Other:			
	.03	3	Spoons and ladles, whether or not worked, of which the bowl has a width not exceeding 30 mm	no.	30% or 30c each less 70%	
	.05	3	Spoons and ladles, whether or not worked, of which the bowl has a width exceeding 30 mm but not exceeding 45 mm	no.	30% or 40c each less 70%	
	.07	6	Other spoons and ladles	no.	30% or 60c each less 70%	
	.10	6	Two-pronged forks, whether or not worked, with a measurement between the prongs exceeding 15 mm	no.	30% or 7,5c each	
	.13	0	Other forks, whether or not worked, of a maximum width of the prong section not exceeding 12 mm	no.	30% or 15c each less 70%	
	.15	7	Other forks, whether or not worked, of a maximum width of the prong section exceeding 12 mm but not exceeding 20 mm	no.	30% or 30c each less 70%	
	.17	3	Other forks, whether or not worked, of a maximum width of the prong section exceeding 20 mm but not exceeding 30 mm	no.	30% or 45c each less 70%	
	.19	2	Other forks	no.	30% or 60c each less 70%	
	.25	4	Fish-knives, whether or not worked	no.	30% or 60c each less 70%	
	.30	0	Butter-knives, whether or not worked	no.	30% or 35c each less 70%	
	.35	1	Table tongs and meat grips, whether or not worked	no.	20%	
	.70	2	Other kitchenware	no.	20%	
	.75	0	Other tableware	no.	30% or 30c each less 70%	
	.80	7	Handles	no.	20%	

No. R. 2687

4 Desember 1987

DOEANE- EN AKSYNSWET, 1964

WYSIGING VAN BYLAE 2 (No. 2/122)

Kragtens artikel 56 van die Doeane- en Aksynswet, 1964, word Deel 1 van Bylae 2 by genoemde Wet hiermee gewysig in die mate in die Bylae hiervan aangetoon.

G. MARAIS,

Adjunk-minister van Finansies.

No. R. 2687

4 December 1987

CUSTOMS AND EXCISE ACT, 1964

AMENDMENT OF SCHEDULE 2 (No. 2/122)

Under section 56 of the Customs and Excise Act, 1964, Part 1 of Schedule 2 to the said Act is hereby amended to the extent set out in the Schedule hereto.

G. MARAIS,

Deputy Minister of Finance.

BYLAE

I Item	II			III Korting- items	IV Ingevoer vanaf of afkomstig van	V Skaal van Anti- dumping- reg
	Tarief- pos/ subpos	Kode	Beskrywing			
208.00 en 208.02			Deur items 208.00 en 208.02 te skrap.			

Opmerking.—Die voorsiening vir 'n anti-dumpingreg op reisartikels en dergelike houers (uitgesonderd dié van leer of saamgestelde leer) ingevoer vanaf of afkomstig van Zimbabwe word ingetrek.

SCHEDULE

I Item	II			III Rebate Item	IV Imported from or origin- ating in	V Rate of Anti- dumping Duty
	Tariff Heading/ sub heading	Code	Description			
208.00 and 208.2			By the deletion of items 208.00 and 208.02.			

Note.—The provisions for an anti-dumping duty on travel goods and similar containers (excluding those of leather or composition leather) imported from or originating in Zimbabwe is withdrawn.

No. R. 2688

4 Desember 1987

DOEANE- EN AKSYNSWET, 1964

WYSIGING VAN BYLAE 3 (No. 3/933)

Kragtens artikel 75 van die Doeane- en Aksynswet, 1964, word Bylae 3 by genoemde Wet hiermee gewysig in die mate in die Bylae hiervan aangetoon.

G. MARAIS,

Adjunk-minister van Finansies.

No. R. 2688

4 December 1987

CUSTOMS AND EXCISE ACT, 1964

AMENDMENT OF SCHEDULE 3 (No. 3/933)

Under section 75 of the Customs and Excise Act, 1964, Schedule 3 to the said Act is hereby amended to the extent set out in the Schedule hereto.

G. MARAIS,

Deputy Minister of Finance.

BYLAE

I Korting- item	II			III Mate van Korting
	Tarief- pos	Korting- kode	Beskrywing	
303.01		“01.00 40	Deur kortingkodes 01.00 en 02.00 by tariefpos No. 15.07 deur die volgende te vervang: Plantaardige olies (uitgesonderd sonneblomsaadolie, klapperolie, gekookte lynolie en geraffineerde of gesuiwerde sojaboonolie), vir verwerking tot verf- of vernisolie	Volle reg
		02.00 45	Palm- en palmpitolie, in die hoeveelhede en op die tye wat die Direkteur-generaal: Handel en Nywerheid by bepaalde permit toelaat, vir die vervaardiging van plantaardige spysvette en -olies	Volle reg”
		“04.00 44	Deur kortingkode 04.00 by tariefpos No. 15.07 deur die volgende te vervang: Plantaardige olies (uitgesonderd sonneblomsaadolie, klapperolie en geraffineerde of gesuiwerde sojaboonolie), vir die vervaardiging van vetsure	Volle reg”
321.01	“15.07	01.00 49	Deur tariefpos No. 15.07 deur die volgende te vervang: Katoensaad-, mufurra-, palm-, palmpit- en babassoe-olie, vir ander doeleindes as bak, hidrering, vermenging met vette of raffinerings	Volle reg”

Opmerking.—Die voorsienings vir 'n volle korting op reg op klapperolie by kortingitems 303.01 en 321.01 word ingetrek.

SCHEDULE

I Rebate	II			III Extent of Rebate
	Tariff Heading	Rebate Code	Description	
303.01			By the substitution for rebate codes 01.00 and 02.00 to tariff heading No. 15.07 of the following:	
		01.00 40	Vegetable oils (excluding sunflower seed oil, coconut oil, boild linseed oil and refined or purified soya bean oil), for processing into paint or varnish oil	Full duty
		02.00 45	Palm oil and palm kernel oil, in such quantities and at such times as the Director-General: Trade and Industry may allow by specific permit, for the manufacture of edible vegetable fats and oils	Full duty"
321.01			By the substitution for rebate code 04.00 to tariff heading No. 15.07 of the following:	
		04.00 44	Vegetable oils (excluding sunflower seed oil, coconut oil and refined or purified soya bean oil), for the manufacture of fatty acids	Full duty"
	15.07	01.00 49	By the substitution for tariff heading No. 15.07 of the following: Cotton seed, mafurra, palm, palm kernel and babassu oil, for purposes other than baking, hydrogenation, mixing with fats or refining	Full duty"

Note.—The provisions for a rebate of the full duty on coconut oil in rebate items 303.01 and 321.01 are withdrawn.

DEPARTEMENT VAN HANDEL EN NYWERHEID

No. R. 2674

4 Desember 1987

WET OP DIE HANDHAWING EN BEVORDERING VAN MEDEDINGING, 1979

Ek, Daniel Wynand Steyn, Minister van Ekonomiese Sake en Tegnologie trek, kragtens artikel 13 (2) van die Wet op die Handhawing en Bevordering van Mededinging, 1979 (Wet 96 van 1979), Goewermentskennisgewing R. 1802 van 23 Oktober 1970 hierby in.

D. W. STEYN,
Minister van Ekonomiese Sake en Tegnologie.

DEPARTMENT OF TRADE AND INDUSTRY

No. R. 2674

4 December 1987

MAINTENANCE AND PROMOTION OF COMPETITION ACT, 1979

I, Daniel Wynand Steyn, Minister of Economic Affairs and Technology do hereby, in terms of section 13 (2) of the Maintenance and Promotion of Competition Act, 1979 (Act 96 of 1979), withdraw Government Notice R. 1802 of 23 October 1970.

D. W. STEYN,
Minister of Economic Affairs and Technology.

DEPARTEMENT VAN JUSTISIE

No. R. 2697

4 Desember 1987

VERKLARING VAN VREDESBEAMPTES KRAGTENS ARTIKEL 334 VAN DIE STRAFPROSESWET, 1977 (WET 51 VAN 1977)

Kragtens die bevoegdheid my verleen by artikel 334 (1) (a) van die Strafproseswet, 1977, wysig ek, Hendrik Jacobus Coetsee, Minister van Justisie, hierby die Bylae van Goewermentskennisgewing R. 159 van 2 Februarie 1979, soos gewysig, deur—

Deel 9 van die Bylae deur die volgende te vervang:

DEPARTMENT OF JUSTICE

No. R. 2697

4 December 1987

DECLARATION OF PEACE OFFICERS IN TERMS OF SECTION 334 OF THE CRIMINAL PROCEDURE ACT, 1977 (ACT 51 OF 1977)

Under and by virtue of the powers vested in me by section 334 (1) (a) of the Criminal Procedure Act, 1977, I, Hendrik Jacobus Coetsee, Minister of Justice, hereby amend the Schedule to Government Notice R. 159 of 2 February 1979, as amended, by—

The substitution for Part 9 of the Schedule of the following:

Kolom 1	Kolom 2	Kolom 3	Kolom 4
"DEEL 9 1. Eerste waterwerkebeamptes, senior waterwerke-beamptes, waterwerkebeamptes, hoofwaterbe-heerbeamptes, beheerwaterbeheerbeamptes, senior waterbeheerbeamptes en waterbeheer-beamptes aangestel kragtens die Staatsdienswet, 1984 (Wet 111 van 1984), in die diens van die Departement van Waterwese 2. Waterbeheerbeamptes, senior waterbeheer-beamptes, beheerwaterbeheerbeamptes en hoof waterbeheerbeamptes aangestel kragtens die Staatsdienswet, 1984, in die diens van die Departement van Waterwese	Die opgaargebied van 'n Staatsdam bedoel in die omskrywing van 'opgaargebied' in die regulasies uitgevaardig kragtens artikel 70 (b), (c) en (j) van die Waterwet, 1956 (Wet 54 van 1956), en water opgedam en opgegaar in 'n Staatsdam bedoel in die omskrywing van 'Staatswaterwerk' in artikel 1 van voormelde Wet Die Republiek van Suid-Afrika	Misdrywe ingevolge die regulasies uitgevaardig kragtens artikel 70 (b), (c) en (j) van die Water-wet, 1956, wat op die bestuur van enige boot op water in 'n gebied in kolom 2 bedoel, betrekking het Misdrywe ingevolge die volgende bepalings van die Waterwet, 1956: (i) Artikel 5 (ii) artikel 9B (iii) artikel 62 (7) (iv) artikel 63 (13) (a) en (b) (v) artikel 170 (1)	(i) Die inhegtenisneming sonder lasbrief van ie-mand ingevolge artikel 40 (1) (a), (c) en (j) van die Strafproseswet, 1977 (Wet 51 van 1977) (ii) Die bevoegdhede wat ingevolge artikel 37 (1) (c) en 2 (a) van die Strafproseswet, 1977, aan 'n polisiebeampte te verleen word Die uitreiking van skriftelike kennisgewings inge-volge artikel 56 van die Strafproseswet, 1977."

H. J. COETSEE,
Minister van Justisie.

Column 1	Column 2	Column 3	Column 4
"PART 9 1. Principal waterworks officers, senior water-works officers, waterworks officers, chief water control officers, control water control officers, senior water control officers and water control officers appointed in terms of the Public Service Act, 1984 (Act 111 of 1984), in the service of the Department of Water Affairs 2. Water control officers, senior water control of-ficers, control water control officers; and chief water control officers appointed in terms of the Public Service Act, 1984, in the service of the Department of Water Affairs	The storage area of a Government dam referred to in the definition of 'storage area' in the regulations made under section 70 (b), (c) and (j) of the Water Act, 1956 (Act 54 of 1956), and water impounded and stored in a Government dam referred to in the definition of 'Government water work' in section 1 of the above-mentioned Act The Republic of South Africa	Offences in terms of the regulations made under section 70 (b), (c) and (j) of the Water Act, 1956, which apply to the driving of any boat on water in an area referred to in column 2 Offences in terms of the following provisions of the Water Act, 1956: (i) Section 5 (ii) section 9B (iii) section 62 (7) (iv) section 63 (13) (a) and (b) (v) section 170 (1)	(i) The arrest without warrant of any person in terms of section 40 (1) (a), (c) and (j) of the Criminal Procedure Act, 1977 (Act 51 of 1977) (ii) The powers conferred upon a police officer in terms of section 37 (1) (c) and (2) (a) of the Criminal Procedure Act, 1977 The issue of written notices in terms of section 56 of the Criminal Procedure Act, 1977."

H. J. COETSEE,
Minister of Justice.

DEPARTEMENT VAN LANDBOU- EKONOMIE EN -BEMARKING

No. R. 2702

4 Desember 1987

WET OP WYN, ANDER GEGISTE DRANK EN
SPIRITUALIEË, 1957 (WET 25 VAN 1957)

VERBOD OP DIE GEBRUIK VAN SEKERE NAME OF
BESKRYWINGS VIR WYN.—WYSIGING

Ek, Jacob Johannes Greyling Wentzel, Minister van Landbou, handelende kragtens artikel 4 (1) (b) van die Wet op Wyn, Ander Gegiste Drank en Spiritualieë, 1957 (Wet 25 van 1957), wysig hierby Goewermenskennisgewing R. 426 van 16 Maart 1962 deur die volgende paragraaf na paragraaf 1 in te voeg:

“1A. bepaal ek hierby dat die verbod in paragraaf 1 bedoel, ook van toepassing is op die woorde ‘tipe’, ‘type’, ‘klas’, ‘class’, ‘soort’, ‘kind’, ‘styl’ en ‘style’ wat langs of in samehang met ‘n naam of ‘n beskrywing gebruik word wat in die Bylae hiervan voorkom; en”.

J. J. G. WENTZEL,
Minister van Landbou.

No. R. 2703

4 Desember 1987

WET OP WYN, ANDER GEGISTE DRANK EN
SPIRITUALIEË, 1957 (WET 25 VAN 1957)

VERBOD OP DIE GEBRUIK VAN SEKERE NAME OF
BESKRYWINGS VIR BRANDEWYN.—WYSIGING

Ek, Jacob Johannes Greyling Wentzel, Minister van Landbou, handelende kragtens artikel 10 (1) (b) van die Wet op Wyn, Ander Gegiste Drank en Spiritualieë, 1957 (Wet 25 van 1957), wysig hierby Goewermenskennisgewing R. 427 van 16 Maart 1962 deur die volgende paragraaf na paragraaf 1 in te voeg:

“1A. bepaal ek hierby dat die verbod in paragraaf 1 bedoel, ook van toepassing is op die woorde ‘tipe’, ‘type’, ‘klas’, ‘class’, ‘soort’, ‘kind’, ‘styl’ en ‘style’ wat langs of in samehang met ‘n naam of ‘n beskrywing gebruik word wat in die Bylae hiervan voorkom; en”.

J. J. G. WENTZEL,
Minister van Landbou.

No. R. 2704

4 Desember 1987

WET OP WYN, ANDER GEGISTE DRANK EN
SPIRITUALIEË, 1957 (WET 25 VAN 1957)

REGULASIES BETREFFENDE DIE PRODUKSIE OF
VERVAARDIGING, INVOER, UITVOER EN ETIKET-
TERING VAN WYN, ANDER GEGISTE DRANK EN
SPIRITUALIEË.—WYSIGING

Die Minister van Landbou het kragtens artikel 39 van die Wet op Wyn, ander Gegiste Drank en Spiritualieë, 1957 (Wet 25 van 1957), die regulasies in die Bylae uitgevaardig.

BYLAE

Woordomskrywing

1. In hierdie Bylae beteken “die Regulasies” die regulasies gepubliseer by Goewermenskennisgewing R. 2544 van 19 Desember 1980, soos gewysig deur die regulasies gepubliseer by Goewermenskennisgewings R. 385 van 20 Februarie 1981, R. 1421 van 10 Julie 1981, R. 2162 van 9 Oktober 1981, R. 407 van 12 Maart 1982, R. 1064 van 4 Junie 1982, R. 2670 van 10 Desember 1982, R. 981 van 13 Mei 1983, R. 2321 van 21 Oktober 1983, R. 1032 van 25

DEPARTMENT OF AGRICULTURAL ECONOMICS AND MARKETING

No. R. 2702

4 December 1987

WINE, OTHER FERMENTED BEVERAGES AND
SPIRITS ACT, 1957 (ACT 25 OF 1957)

PROHIBITION OF THE USE OF CERTAIN NAMES OR
DESCRIPTIONS FOR WINE.—AMENDMENT

I, Jacob Johannes Greyling Wentzel, Minister of Agriculture, acting under section 4 (1) (b) of the Wine, Other Fermented Beverages and Spirits Act, 1957 (Act 25 of 1957), hereby amend Government Notice R. 426 of 16 March 1962 by the insertion of the following paragraph after paragraph 1:

“1A. I hereby determine that the prohibition referred to in paragraph 1 shall also apply to the words ‘type’, ‘tipe’, ‘class’, ‘klas’, ‘kind’, ‘soort’, ‘style’ and ‘styl’ used next to or in conjunction with a name or description appearing in the subjoined Schedule; and”.

J. J. G. WENTZEL,
Minister of Agriculture.

No. R. 2703

4 December 1987

WINE, OTHER FERMENTED BEVERAGES AND
SPIRITS ACT, 1957 (ACT 25 OF 1975)

PROHIBITION OF THE USE OF CERTAIN NAMES OR
DESCRIPTIONS FOR BRANDIES.—AMENDMENT

I, Jacob Johannes Greyling Wentzel, Minister of Agriculture, acting under section 10 (1) (b) of the Wine, Other Fermented Beverages and Spirits Act, 1957 (Act 25 of 1957), hereby amend Government Notice R. 427 of 16 March 1962 by the insertion of the following paragraph after paragraph 1:

“1A. I hereby determine that the prohibition referred to in paragraph 1 shall also apply to the words ‘type’, ‘tipe’, ‘class’, ‘klas’, ‘kind’, ‘soort’, ‘style’ and ‘styl’ used next to or in conjunction with a name or description appearing in the subjoined Schedule; and”.

J. J. G. WENTZEL,
Minister of Agriculture.

No. R. 2704

4 December 1987

WINE, OTHER FERMENTED BEVERAGES AND
SPIRITS ACT, 1957 (ACT 25 OF 1957)

REGULATIONS RELATING TO THE PRODUCTION
OR MANUFACTURE, IMPORT, EXPORT AND LA-
BELLING OF WINE, OTHER FERMENTED BEVER-
AGES AND SPIRITS.—AMENDMENT

The Minister of Agriculture has under section 39 of the Wine, Other Fermented Beverages and Spirits Act, 1957 (Act 25 of 1957), made the regulations in the Schedule.

SCHEDULE

Definitions

1. In this Schedule “the Regulations” means the regulations published by Government Notice R. 2544 of 19 December 1980, as amended by the regulations published by Government Notices R. 385 of 20 February 1981, R. 1421 of 10 July 1981, R. 2162 of 9 October 1981, R. 407 of 12 March 1982, R. 1064 of 4 June 1982, R. 2670 of 10 December 1982, R. 981 of 13 May 1983, R. 2321 of 21 October 1983, R. 1032 of 25 May 1984 (as corrected by

Mei 1984 (soos verbeter by Goewermentskennisgewing R. 388 van 15 Februarie 1985), R. 1627 van 3 Augustus 1984, R. 856 van 19 April 1985, R. 1499 van 28 Junie 1985, R. 357 van 28 Februarie 1986 (soos verbeter by Goewermentskennisgewing R. 1269 van 27 Junie 1986), R. 1630 van 1 Augustus 1986, R. 2189 van 24 Oktober 1986 (soos verbeter by Goewermentskennisgewing R. 2579 van 5 Desember 1986), R. 2692 van 19 Desember 1986, en R. 1661 van 31 Julie 1987 en R. 2582 van 20 November 1987.

Wysiging van regulasie 3 van die Regulasies

2. Regulasie 3 van die Regulasies word hierby gewysig—

(a) deur die volgende paragrawe na paragraaf (i) van subregulasie (1) in te voeg:

- “(j) ekstra-droë vonkelwyn;
- (k) droë vonkelwyn;
- (l) semi-soet vonkelwyn;
- (m) soet vonkelwyn;” en

(b) deur subregulasie (3) deur die volgende subregulasie te vervang:

“(3) (a) Blanc de noir-wyn in subregulasie (1) (h) bedoel, sluit die wyn in wat algemeen as ‘vin gris’ bekend staan.

(b) Ekstra-droë vonkelwyn in subregulasie (1) (j) bedoel, sluit die vonkelwyn in wat algemeen as ‘extra brut’, ‘extra herb’, ‘brut’, ‘herb’, ‘extra dry’ of ‘extra trocken’ bekend staan, of wat ‘n benaming het wat in enige ander taal ‘ekstra-droog’ beteken.

(c) Droë vonkelwyn in subregulasie (1) (k) bedoel, sluit die vonkelwyn in wat algemeen as ‘sec’, ‘trocken’, ‘secco’, ‘asciutto’, ‘dry’, ‘off-dry’ en ‘enpoc’ bekend staan, of wat ‘n benaming het wat in enige ander taal ‘droog’ beteken.

(d) Semi-soet vonkelwyn in subregulasie (1) (l) bedoel, sluit die vonkelwyn in wat algemeen as ‘demi-sec’, ‘halbtrocken’, ‘abbocato’ en ‘halvtor’ bekend staan of wat ‘n benaming het wat in enige ander taal ‘semi-soet’ beteken.

(e) Soet vonkelwyn in subregulasie (1) (m) bedoel, sluit die vonkelwyn in wat algemeen as ‘doux’, ‘mild’, ‘dolce’, ‘sweet’ en ‘sod’ bekend staan, of wat ‘n benaming het wat in enige ander taal ‘soet’ beteken.”

Invoeging van regulasie 10C van die Regulasies

3. Die volgende regulasie word hierby in die Regulasies na regulasie 10B ingevoeg:

“Vereistes vir vonkelwyn

10C. (1) Vonkelwyn moet tot so ‘n mate met koolsuurgas oorsadig wees dat die totale meterdruk, gemeet by 20 °C, in ‘n houer waarin sodanige vonkelwyn verkoop of uitgevoer word, 300kPa oorskry.

(2) Vonkelwyn is ekstra-droë vonkelwyn indien die ressuikerinhoud daarvan, uitgedruk as inverstuiker, hoogstens 15 gram per liter is.

(3) Vonkelwyn is droë vonkelwyn indien die ressuikerinhoud daarvan, uitgedruk as inverstuiker, meer as 15 gram per liter maar hoogstens 35 gram per liter is.

(4) Vonkelwyn is semi-soet vonkelwyn indien die ressuikerinhoud daarvan, uitgedruk as inverstuiker, meer as 35 gram per liter maar hoogstens 50 gram per liter is.

(5) Vonkelwyn is soet vonkelwyn indien die ressuikerinhoud daarvan, uitgedruk as inverstuiker, meer as 50 gram per liter is.

Government Notice R. 388 of 15 February 1985), R. 1627 of 3 August 1984, R. 856 of 19 April 1985, R. 1499 of 28 June 1985, R. 357 of 28 February 1986 (as corrected by Government Notice R. 1269 of 27 June 1986), R. 1630 of 1 August 1986, R. 2189 of 24 October 1986 (as corrected by Government Notice R. 2579 of 5 December 1986), R. 2692 of 19 December 1986, R. 1661 of 31 July 1987 and R. 2582 of 20 November 1987.

Amendment of regulation 3 of the Regulations

2. Regulation 3 of the Regulations is hereby amended—

(a) by the insertion after paragraph (i) of subregulation (1) of the following paragraphs:

- “(j) extra dry sparkling wine;
- (k) dry sparkling wine;
- (l) semi-sweet sparkling wine;
- (m) sweet sparkling wine;” and

(b) by the substitution for subregulation (3) of the following subregulation:

“(3) (a) Blanc de noir wine referred to in subregulation (1) (h) shall include the wine which is generally known as ‘vin gris’.

(b) Extra dry sparkling wine referred to in subregulation (1) (j) shall include the sparkling wine which is generally known as ‘extra brut’, ‘extra herb’, ‘brut’, ‘herb’, ‘extra dry’ and ‘extra trocken’, or which has a designation meaning ‘extra dry’ in any other language.

(c) Dry sparkling wine referred to in subregulation (1) (k) shall include the sparkling wine which is generally known as ‘sec’, ‘trocken’, ‘secco’, ‘asciutto’, ‘dry’, ‘off dry’ and ‘enpoc’, or which has a designation meaning ‘dry’ in any other language.

(d) Semi-sweet sparkling wine referred to in subregulation (1) (l) shall include the sparkling wine which is generally known as ‘demi-sec’, ‘halbtrocken’, ‘abbocato’ and ‘halvtor’, or which has a designation meaning ‘semi-sweet’ in any other language.

(e) Sweet sparkling wine referred to in subregulation (1) (m) shall include the sparkling wine which is generally known as ‘doux’, ‘mild’, ‘dolce’, ‘sweet’ and ‘sod’, or which has a designation meaning ‘sweet’ in any other language.”

Insertion of regulation 10C of the Regulations

3. The following regulation is hereby inserted in the Regulations after regulation 10B:

“Requirements for sparkling wine

10C. (1) Sparkling wine shall be surcharged with carbon dioxide to such extent that the total gauge pressure, measured at 20 °C, in a receptacle in which such sparkling wine is sold or exported, shall exceed 300kPa.

(2) Sparkling wine shall be extra dry sparkling wine if the residual sugar content thereof, expressed as invert sugar, is not more than 15 grams per litre.

(3) Sparkling wine shall be dry sparkling wine if the residual sugar content thereof, expressed as invert sugar, is more than 15 grams per litre but not more than 35 grams per litre.

(4) Sparkling wine shall be semi-sweet sparkling wine if the residual sugar content thereof, expressed as invert sugar, is more than 35 grams per litre but not more than 50 grams per litre.

(5) Sparkling wine shall be sweet sparkling wine if the residual sugar content thereof, expressed as invert sugar, is more than 50 grams per litre.

(6) Vonkelwyn word geag tenkgegist vonkelwyn te wees indien die gesamentlike duur van die tweede alkoholiese gisting en die tydperk waartydens daardie vonkelwyn op die moer lê—

- (a) minstens 80 dae is waar dit in 'n geslote tenk geproduseer of vervaardig word; en
- (b) minstens 30 dae is waar dit in 'n tenk wat van roerders voorsien is, geproduseer of vervaardig word.

(7) Vonkelwyn word geag bottelgegist vonkelwyn te wees indien—

- (a) die tweede alkoholiese gisting daarvan slegs in die bottel plaasvind;
- (b) die duur van gisting in die bottel, ingesluit die tydperk waartydens dit op die moer lê, minstens 60 dae is;
- (c) die duur van die produksieproses, ingesluit die veroudering daarvan, gereken vanaf die begin van die tweede alkoholiese gisting, ten minste nege maande is; en
- (d) die skeiding van die moer van die wyn deur middel van die uitgooi/filtrasie-metode ('raking') of die bevriesingsmetode ('disgorging') gedoen word.

(8) Vonkelwyn word geag bottelgegist vonkelwyn volgens die tradisionele metode ('Methode Champenoise') te wees indien—

- (a) die tweede alkoholiese gisting daarvan slegs in die bottel plaasvind;
- (b) dit vir 'n ononderbroke tydperk van minstens nege maande, gereken vanaf die begin van die tweede alkoholiese gisting, in dieselfde bottel in kontak met die moer bly;
- (c) die skeiding van die moer van die wyn deur middel van die bevriesingsmetode ('disgorging') gedoen word; en
- (d) die koolsuurgas in die bottel slegs van die gistingsproses afkomstig is.

(9) (a) Iemand wat vonkelwyn in die Republiek produseer of vervaardig met die oog daarop om die woorde of uitdrukkings 'tenkgegist vonkelwyn (Charmat)', 'bottelgegist vonkelwyn' of 'bottelgegist vonkelwyn volgens die tradisionele metode (Methode Champenoise)', of woorde of uitdrukkings wat 'n soortgelyke of verwante betekenis het, in verband met die verkoop of uitvoer daarvan te gebruik, moet die beherende amptenaar binne vyf werksdae na die aanvang van die tweede alkoholiese gisting skiftelik van die produksie of vervaardiging daarvan in kennis stel.

(b) Indien 'n persoon versuim om kennis te gee soos in paragraaf (a) vereis, en die betrokke vonkelwyn nie aan die vereistes uiteengesit in subregulasies (6), (7) en (8) voldoen nie, mag die woorde of uitdrukkings in paragraaf (a) bedoel, nie in verband met die verkoop van sodanige klasse, tipes en grade vonkelwyn gebruik word nie."

Wysiging van regulasie 11 van die Regulasies

4. Regulasie 11 van die Regulasies word hierby gewysig deur paragraaf (a) van subregulasie (3) deur die volgende paragraaf te vervang:

- "(3) (a) Die bepalinge van subregulasies (1) en (2) is nie van toepassing nie op die gebruik van die woorde of uitdrukkings 'ekstra droog', 'droog', 'half-droog', 'semi-soet' en 'soet', of enige vertaling of vervorming van sodanige woorde of uitdrukkings, in verband met die verkoop of uitvoer van desertwyn en likeurwyn."

(6) Sparkling wine shall be deemed to be tank fermented sparkling wine if the combined duration of the second alcoholic fermentation and the period during which that sparkling wine lies on the lees is—

- (a) at least 80 days where it is produced or manufactured in a sealed tank; and
- (b) at least 30 days where it is produced or manufactured in a tank that is equipped with agitators.

(7) Sparkling wine shall be deemed to be bottle fermented sparkling wine if—

- (a) the second alcoholic fermentation thereof occurs solely in the bottle;
- (b) the duration of fermentation in the bottle, including the period during which it lies on the lees, is at least 60 days;
- (c) the duration of the production process, including the maturation thereof calculated from the second alcoholic fermentation, is at least nine months; and
- (d) the separation of the lees from the wine is done by means of the emptying/filtration method ('raking') or of the freezing method ('disgorging').

(8) Sparkling wine shall be deemed to be bottle fermented sparkling wine according to the traditional method ('Methode Champenoise') if—

- (a) the second alcoholic fermentation thereof occurs solely in the bottle;
- (b) it stays in contact with the lees in the same bottle for an uninterrupted period of at least nine months, calculated from the beginning of the second alcoholic fermentation;
- (c) the separation of the lees from the wine is done by means of the freezing method ('disgorging'); and
- (d) the carbon dioxide in the bottle originates solely from the fermentation process.

(9) (a) A person producing or manufacturing sparkling wine in the Republic with a view to use the words or expressions 'tank fermented sparkling wine (Charmat)', 'bottle fermented sparkling wine' or 'bottle fermented sparkling wine according to the traditional method (Methode Champenoise)', or words or expressions that have a similar or related meaning, in connection with the sale or export thereof, shall notify the administering officer within five working days after the commencement of the second alcoholic fermentation in writing of the production or manufacture thereof.

(b) If a person fails to give notice as required in paragraph (a) and such sparkling wine does not comply with the requirements set out in subregulations (6), (7) and (8), the words or expressions referred to in paragraph (a) shall not be used in connection with the sale of such classes, types and grades of sparkling wine."

Amendment of regulation 11 of the Regulations

4. Regulation 11 of the Regulations is hereby amended by the substitution for paragraph (a) of subregulation (3) of the following paragraph:

- "(3) (a) The provisions of subregulations (1) and (2) shall not apply to the use of the words or expressions 'extra dry', 'dry', 'semi-dry', 'semi-sweet' and 'sweet', or any translation or transformation of such words or expressions, in connection with the sale or export of dessert wine and liqueur wine."

Wysiging van regulasie 12 van die Regulasies

5. Regulasie 12 van die Regulasies word hierby gewysig deur subregulasie (2) deur die volgende subregulasie te vervang:

“(2) Vonkelwyn moet tot dié mate in regulasie 10C (1) uiteengesit, met koolsuurgas oorversadig wees.”.

Wysiging van regulasie 21 van die Regulasies

6. Regulasie 21 van die Regulasies word hierby gewysig deur subregulasie (2) deur die volgende subregulasie te vervang:

“(2) Indien beoog word om wyn wat reeds ingevolge regulasie 32 voorlopig as ’n edel laat-oeswyn van ’n bepaalde oesjaar goedgekeur is, met ’n ander wyn te vermeng, word die vermengde wyn, behoudens die bepalings van subregulasie (1), slegs as ’n edel laat-oeswyn van ’n bepaalde oesjaar gesertifiseer indien sodanige ander wyn voor sodanige vermenging ook ingevolge regulasie 32 voorlopig as ’n edel laat-oeswyn goedgekeur is, en geen ander vermenging, behalwe ’n vermenging wat ingevolge hierdie regulasies by die produksie of vervaardiging van ’n edel laat-oeswyn toelaatbaar is, reeds voorheen met enige van die betrokke wyne plaasgevind het nie.”.

Wysiging van regulasie 28 van die Regulasies

7. Regulasie 28 van die Regulasies word hierby gewysig deur subregulasies (3), (4), (5) en (6) te skrap.

Wysiging van regulasie 52 van die Regulasies

8. Regulasie 52 van die Regulasies word hierby gewysig deur die volgende subregulasie na subregulasie (1) in te voeg:

“(1A) Indien ’n woord of uitdrukking in ’n ander taal as die Afrikaanse of Engelse taal op ’n etiket op ’n houer verskyn waarin wyn, ander gegiste drank of spiritueelie in die Republiek verkoop of daaruit uitgevoer word—

(a) mag sodanige woord of uitdrukking nie ’n soortgelyke of verwante betekenis hê nie as ’n naam, woord, uitdrukking of ander aanduiding in paragrawe (a), (b) en (c) van artikel 21 (1) van die Wet bedoel; en

(b) kan die beherende amptenaar of die raad vereis dat die persoon in artikel 23 (1) (a) (i) of 27 (1) (b) (ii) van die Wet bedoel, of die uitvoerder van sodanige wyn, ander gegiste drank of spiritueelie, ’n gesertifiseerde vertaling van die betrokke woord of uitdrukking voorlê.”.

Wysiging van regulasie 60 van die Regulasies

9. Regulasie 60 van die Regulasies word hierby gewysig deur subregulasie (2) deur die volgende subregulasie te vervang:

“(2) Die bepalings van subregulasie (1) is nie van toepassing nie op die uitvoer van ’n besending na Angola, Ascension, Botswana, die Comoro-eilande, die Kanariese Eilande, Lesotho, die Malgassiese Republiek (Madagaskar), Malawi, Mauritius, Mosambiek, die Seychelle, St Helena, Suidwes-Afrika, Swaziland, Tristan da Cunha, Zaire, Zambië, Zimbabwe of ’n staat waarvan die grondgebied voorheen deel van die Republiek uitgemaak het.”.

Amendment of regulation 12 of the Regulations

5. Regulation 12 of the Regulations is hereby amended by the substitution for subregulation (2) of the following subregulation:

“(2) Sparkling wine shall be surcharged with carbon dioxide to the extent set out in regulation 10C (1).”.

Amendment of regulation 21 of the Regulations

6. Regulation 21 of the Regulations is hereby amended by the substitution for subregulation (2) of the following subregulation:

“(2) If it is intended to blend any wine that has already been provisionally approved in terms of regulation 32 as a noble late harvest wine of a particular vintage, with any other wine, the blended wine may, subject to the provisions of subregulation (1), be certified as a noble late harvest wine of a particular vintage only if such other wine has prior to such blending also been provisionally approved in terms of regulation 32 as a noble late harvest wine, and no other blending, except a blending permissible in terms of these regulations in the production or manufacture of a noble late harvest wine, have previously occurred with any of the wines concerned.”.

Amendment of regulation 28 of the Regulations

7. Regulation 28 of the Regulations is hereby amended by the deletion of subregulations (3), (4), (5) and (6).

Amendment of regulation 52 of the Regulations

8. Regulation 52 of the Regulations is hereby amended by the insertion after subregulation (1) of the following subregulation:

“(1A) If any word or expression appears in a language other than the Afrikaans or English language, on a label on a receptacle in which wine, other fermented beverages or spirits is sold in the Republic or exported therefrom—

(a) such word or expression shall not have a similar or related meaning as a name, word, expression or other indication referred to in paragraphs (a), (b) and (c) of section 21 (1) of the Act; and

(b) the administering officer or the board may demand from the person referred to in section 23 (1) (a) (i) or 27 (1) (b) (ii) of the Act, or the exporter of such wine, other fermented beverages or spirits to submit a certified translation of the word or expression concerned.”.

Amendment of regulation 60 of the Regulations

9. Regulation 60 of the Regulations is hereby amended by the substitution for subregulation (2) of the following subregulation:

“(2) The provisions of subregulation (1) shall not apply to the export of a consignment to Angola, Ascension, Botswana, the Canary Islands, the Comoro Islands, Lesotho, the Malagasy Republic (Madagascar), Malawi, Mauritius, Mozambique, the Seychelles, South West Africa, St Helena, Swaziland, Tristan da Cunha, Zaire, Zambia, Zimbabwe or a state the territory of which formerly formed part of the Republic.”.

Wysiging van regulasie 61 van die Regulasies

10. Regulasie 61 van die Regulasies word hierby gewysig—

- (a) deur in paragraaf (b) van subregulasie (2) die woorde wat subparagraaf (i) voorafgaan, deur die volgende woorde te vervang:

“(b) Behoudens die bepalings van subregulasie (2A) word ’n monster in paragraaf (a) (ii) bedoel, nie vereis ten opsigte van ’n aansoek om ’n uitvoersertifikaat indien die betrokke besending—”; en
- (b) deur die volgende subregulasie na subregulasie (2) in te voeg:

“(2A) ’n Vrstelling van subregulasie (2) (b) (i) en (ii) bedoel, is nie van toepassing nie op wyn waarvan die raad ten tyde van die senuiglike beoordeling van ’n verteenwoordigende monster daarvan ingevolge regulasie 33, bepaal het dat die betrokke wyn ’n beperkte hou vermoë het.”.

Wysiging van regulasie 71 van die Regulasies

11. Regulasie 71 van die Regulasies word hierby gewysig deur subregulasie (2) deur die volgende subregulasie te vervang:

- (2) So ’n appèl moet—
 - (a) wanneer per pos gestuur, geadresseer wees aan die Adjunk-direkteur, Subdirektoraat Drankbeheer, Privaatsak X5052, STELLENBOSCH, 7600;
 - (b) wanneer per hand afgelewer, afgelewer word by die Adjunk-direkteur, Subdirektoraat Drankbeheer, Nietvoorbij, STELLENBOSCH.”.

Wysiging van regulasie 73 van die Regulasies

12. Regulasie 73 van die Regulasies word hierby gewysig deur subregulasie (2) deur die volgende subregulasie te vervang:

- “(2) Enige bedrag wat ingevolge hierdie regulasies betaalbaar is, moet per tjek, posorder of poswissel wat ten gunste van die Direkteur-generaal: Landbou-ekonomie en -bemarking uitgemaak is, betaal word en aan die Adjunk-direkteur in regulasie 71 (2) bedoel, gestuur of afgelewer word: Met dien verstande dat indien sodanige bedrag per hand afgelewer word, dit in kontant betaal kan word.”.

Wysiging van regulasie 74 van die Regulasies

13. Regulasie 74 van die Regulasies word hierby gewysig deur subregulasie (2) deur die volgende subregulasie te vervang:

- “(2) Enige aansoek, kennisgewing en dokument, asook enigiets anders in verband daarmee, wat ingevolge hierdie regulasies by die beherende amptenaar ingedien moet word, moet—
 - (a) wanneer per pos gestuur, geadresseer wees aan—

Die Beherende Amptenaar (Wet 25 van 1957),
Subdirektoraat Drankbeheer,
Privaatsak X5052,
STELLENBOSCH
7600;
 - (b) wanneer per spoor gestuur, geadresseer wees aan—

Die Beherende Amptenaar (Wet 25 van 1957),
Subdirektoraat Drankbeheer,
Nietvoorbij,
STELLENBOSCH

Amendment of regulation 61 of the Regulations

10. Regulation 61 of the Regulations is hereby amended—

- (a) by the substitution in paragraph (b) of subregulation (2) for the words preceding subparagraph (i) of the following words:

“(b) Subject to the provisions of subregulation (2A), a sample referred to in paragraph (a) (ii) shall not be required in respect of an application for an export certificate if the consignment concerned—”; and
- (b) by the insertion of the following subregulation after subregulation (2):

“(2A) An exemption referred to in subregulation (2) (b) (i) and (ii) shall not apply to wine of which the board at the time of the sensory judgement of a representative sample thereof in terms of regulation 33, has determined that the wine concerned has limited ability to keep.”.

Amendment of regulation 71 of the Regulations

11. Regulation 71 of the Regulations is hereby amended by the substitution for subregulation (2) of the following subregulation:

- “(2) Such an appeal shall—
 - (a) when forwarded by post by addressed to the Deputy Director, Subdirector Liquor Control, Private Bag X5052, STELLENBOSCH, 7600;
 - (b) when delivered by hand be delivered to the Deputy Director, Subdirector Liquor Control, Nietvoorbij, STELLENBOSCH.”.

Amendment of regulation 73 of the Regulations

12. Regulation 73 of the Regulations is hereby amended by the substitution for subregulation (2) of the following subregulation:

- “(2) Any amount which is payable in terms of these regulations shall be paid by cheque, postal order or money order made out in favour of the Director-General: Agricultural Economics and Marketing, and be forwarded or delivered to the Deputy Director referred to in regulation 71 (2): Provided that if such amount is delivered by hand, it may be paid in cash.”.

Amendment of regulation 74 of the Regulations

13. Regulation 74 of the Regulations is hereby amended by the substitution for subregulation (2) of the following subregulation:

- “(2) Any application, notice and document, as well as anything else pertaining thereto, which are required to be submitted to the administering officer in terms of these regulations shall—
 - (a) when forwarded by post, be addressed to—

The Administering Officer (Act 25 of 1957),
Private Bag X5052,
STELLENBOSCH
7600;
 - (b) when forwarded by rail, be addressed to—

The Administering Officer (Act 25 of 1957),
Subdirector Liquor Control,
Nietvoorbij,
STELLENBOSCH;

- (c) wanneer per hand afgelewer, afgelewer word by—

Die Beherende Amptenaar (Wet 25 van 1957),
Subdirektoraat Drankbeheer,
Nietvoorbij,
STELLENBOSCH.”.

- (c) when delivered by hand, be delivered to—

The Administering Officer (Act 25 of 1957),
Subdirector Liquor Control,
Nietvoorbij,
STELLENBOSCH.”.

DEPARTEMENT VAN MANNEKRAG

No. R. 2649

4 Desember 1987

LOONWET, 1957

WYSIGING VAN LOONVASSTELLING 444.—
DOODKISVERVAARDIGINGSNYWERHEID, SEKERE
GEBIEDE

Ek, Pieter Theunis Christiaan du Plessis, Minister van Mannekrag, wysig hierby kragtens artikel 15 (6) van die Loonwet, 1957, Loonvasstelling 444, Doodkisvervaardigingsnywerheid, Sekere Gebiede, gepubliseer by Gowermentskennisgewing R. 288 van 15 Februarie 1985, ooreenkomstig die Bylae hiervan en bepaal die derde Maandag na die datum van publikasie van hierdie kennisgewing as die datum waarop genoemde wysiging bindend word.

P. T. C. DU PLESSIS,
Minister van Mannekrag.

BYLAE

1. In klousule 1 (1), voeg die uitdrukking “Chatsworth” in, voor die woord “Durban”.

2. In klousule 3, vervang subklousule (1) deur die volgende:

“(1) *Minimum lone*.—(a) Die minimum loon wat ’n werkgewer aan sy werknemers moet betaal, is soos in paragrawe (b) en (c) bepaal: Met dien verstande dat—

(i) hierdie vereiste nie van toepassing is nie op—

(aa) ’n werkgewer wat op die datum van publikasie van hierdie kennisgewing slegs betrokke is by hierdie nywerheid, in slegs een van die gebiede waarin hierdie vasstelling van toepassing is en wat minder as 20 werknemers in of in verband met sy besigheid in diens het, vir solank as wat hy voortgaan om te alle tye minder as 20 werknemers aldus in diens te hê;

(ab) ’n persoon wat na die datum van publikasie van hierdie kennisgewing ’n werkgewer slegs in hierdie nywerheid word in slegs een van die gebiede waarin hierdie vasstelling van toepassing is en wat te alle tye minder as 20 werknemers in of in verband met sy besigheid in diens het vir solank as wat hy voortgaan om te alle tye minder as 20 werknemers aldus in diens te hê;

(ac) ’n werkgewer gedurende die eerste altesaam 12 maande nadat hy met besigheid in hierdie nywerheid begin het in ’n gebied waarin hierdie vasstelling bindend is;

(ii) indien die werkgewer in enige van die gebiede waarin hierdie vasstelling van toepassing is vir ’n tydperk van altesaam langer as 12 maande maar minder as 24 maande in hierdie nywerheid betrokke is sodanige lone met hoogstens 10 persent verminder mag word totdat hy aldus vir ’n tydperk van altesaam 24 maande betrokke is waarna die minimum lone soos in paragrawe (b) en (c) bepaal word, betaalbaar word en betaal moet word.

DEPARTMENT OF MANPOWER

No. R. 2649

4 December 1987

WAGE ACT, 1957

AMENDMENT OF WAGE DETERMINATION 444.—
COFFIN MANUFACTURING INDUSTRY, CERTAIN
AREAS

I, Pieter Theunis Christiaan du Plessis, Minister of Manpower, hereby, in terms of section 15 (6) of the Wage Act, 1957, amend Wage Determination 444, Coffin Manufacturing Industry, Certain Areas, published under Government Notice R. 288 of 15 February 1985, in accordance with the Schedule hereto and fix the third Monday after the date of publication of this notice as the date from which the said amendment shall be binding.

P. T. C. DU PLESSIS,
Minister of Manpower.

SCHEDULE

1. In clause 1 (1), insert the expression “Chatsworth”, before the word “Durban”.

2. In clause 3, substitute the following for subclause (1):

“(1) *Minimum wages*.—(a) The minimum wages which an employer shall pay his employees shall be as specified in paragraphs (b) and (c): Provided that—

(i) this requirements shall not apply to—

(aa) an employer who at the date of publication of this notice is engaged in this industry only, in only one of the areas in which this determination is binding, and is employing not more than 20 employees in or in connection with his business, for so long as he continues thus to employ not more than 20 employees at all times;

(ab) a person who after the date of publication of this notice becomes an employer in this industry only, in only one of the areas in which this determination is binding, and who employs not more than 20 employees in or in connection with his business, for so long as he continues thus to employ not more than 20 employees at all times;

(ac) an employer during the first 12 months, in the aggregate after commencing business in this industry in an area in which this determination is binding;

(ii) if an employer has been engaged in this industry in any of the areas in which this determination is binding, for a period of more than 12 months but less than 24 months in the aggregate, such wage may be reduced by not more than 10 per cent until he has been thus engaged for a period of 24 months in the aggregate, whereupon the minimum wages specified in paragraphs (b) and (c) shall become payable and be paid.

(b) Behoudens paragraaf (a) moet 'n werkgewer aan elke lid van ondergenoemde klasse werknemers, uitgesonderd los werknemers, die minimum lone betaal wat hieronder bepaal word:

	In die landdrosdistrikte Alberton, Bellville, Benoni, Boksburg, Brakpan, Chatsworth, Die Kaap, Durban, Germiston, Goodwood, Johannesburg, Kempton Park, Krugersdorp, Nigel, Oberholzer, Pinetown, Port Elizabeth, Pretoria, Randburg, Randfontein, Roodepoort, Simonstad, Springs, Uitenhage, Vanderbijlpark, Vereeniging, Westonaria, Wonderboom en Wynberg		In die landdrosdistrikte Bloemfontein, Brits, Inanda, Kimberley, Oos-Londen en Pietermaritzburg		In die landdrosdistrikte Knysna en Oudtshoorn		In die landdrosdistrik Harrismith en die munisipale gebied van Potgietersrus	
	Gedurende die eerste 12 maande nadat hierdie wysiging bindend word	Daarna	Gedurende die eerste 12 maande nadat hierdie wysiging bindend word	Daarna	Gedurende die eerste 12 maande nadat hierdie wysiging bindend word	Daarna	Gedurende die eerste 12 maande nadat hierdie wysiging bindend word	Daarna
	Per week R	Per week R	Per week R	Per week R	Per week R	Per week R	Per week R	Per week R
Algemene werker—								
gedurende die eerste ses maande diens by dieselfde werkgewer	66,24	73,14	59,34	65,32	52,92	58,42	48,30	53,36
daarna.....	73,60	80,96	65,78	72,22	58,88	64,86	53,82	59,34
Ambagsman	187,22	194,58	167,44	173,88	149,96	155,94	137,54	143,06
Assistent-voorman	170,20	177,56	152,26	158,70	136,16	142,14	125,12	130,64
Bediener van 'n mobiele hystoestel—								
gedurende die eerste drie maande onder-vinding	82,34	89,70	73,60	80,04	65,78	71,76	60,26	65,78
daarna.....	90,62	97,98	80,96	87,40	72,68	78,66	66,70	72,22
Drywer van 'n—								
ligte motorvoertuig	91,54	98,90	81,88	88,32	74,98	80,96	69,00	74,52
medium motorvoertuig	107,64	115,00	96,14	102,58	87,86	93,84	80,50	86,02
swaar motorvoertuig.....	120,98	128,34	109,02	115,46	100,28	106,26	92,92	98,44
ekstra swaar motorvoertuig.....	136,16	143,52	121,44	127,88	109,02	115,00	99,82	105,34
Eerstehulpbediener	93,38	100,74	83,72	90,16	74,98	80,96	68,54	74,06
Faktotum	102,12	109,48	91,08	97,52	81,42	87,40	74,52	80,04
Ketelbediener.....	82,34	89,70	73,60	80,04	65,78	71,76	60,26	65,78

	In die landdrostrikte Alberton, Bellville, Benoni, Boksburg, Brakpan, Chatsworth, Die Kaap, Durban, Germiston, Goodwood, Johannesburg, Kempton Park, Krugersdorp, Nigel, Oberholzer, Pinetown, Port Elizabeth, Pretoria, Randburg, Randfontein, Roodepoort, Simonstad, Springs, Uitenhage, Vanderbijlpark, Vereeniging, Westonaria, Wonderboom en Wynberg		In die landdrostrikte Bloemfontein, Brits, Inanda, Kimberley, Oos-Londen en Pietermaritzburg		In die landdrostrikte Knysna en Oudtshoorn		In die landdrostrik Harrismith en die munisipale gebied van Potgietersrus	
	Gedurende die eerste 12 maande nadat hierdie wysiging bindend word	Daarna	Gedurende die eerste 12 maande nadat hierdie wysiging bindend word	Daarna	Gedurende die eerste 12 maande nadat hierdie wysiging bindend word	Daarna	Gedurende die eerste 12 maande nadat hierdie wysiging bindend word	Daarna
	Per week R	Per week R	Per week R	Per week R	Per week R	Per week R	Per week R	Per week R
Klerk—								
gedurende die eerste jaar ondervinding	90,62	97,98	80,96	87,40	72,68	78,66	66,70	72,22
gedurende die tweede jaar ondervinding	109,48	116,84	98,90	105,34	89,24	95,22	81,88	87,40
gedurende die derde jaar ondervinding	128,34	135,70	116,38	122,82	105,80	111,78	96,60	102,12
daarna.....	147,20	154,56	134,32	140,76	122,36	128,34	112,24	117,76
Masjienfaktotum	113,16	120,52	101,20	107,64	90,62	96,60	83,26	88,78
Onderbaas.....	82,34	89,70	73,60	80,04	65,78	71,76	60,26	65,78
Sekuriteitswag.....	93,38	100,74	83,72	90,16	74,98	80,96	68,54	74,06
Voorman	198,26	205,62	177,56	184,00	158,70	164,68	145,82	151,34
Wag	83,72	91,08	74,52	80,96	67,16	73,14	61,18	66,70
Werknemer graad I—								
gedurende die eerste ses maande ondervinding	85,10	92,46	75,90	82,34	68,08	74,06	62,10	67,62
gedurende die tweede ses maande ondervinding	87,86	95,22	78,66	85,10	70,38	76,36	64,40	69,92
daarna.....	90,62	97,98	80,96	87,40	72,68	78,66	66,70	72,22
Werknemer graad II—								
gedurende die eerste drie maande ondervinding	78,66	86,02	69,92	76,36	63,02	69,00	57,50	63,02
gedurende die tweede drie maande ondervinding	81,88	89,24	73,14	79,58	65,32	71,30	59,80	65,32
daarna.....	85,10	92,46	75,90	82,34	68,08	74,06	62,10	67,62
Werknemer graad III—								
gedurende die eerste drie maande ondervinding	73,60	80,96	65,78	72,22	58,88	64,86	53,82	59,34
daarna.....	78,66	86,02	70,38	76,82	63,02	69,00	57,50	63,02
Werknemer nie elders in hierdie subklou- sule uitdruklik genoem nie	82,34	89,70	73,60	80,04	65,78	71,76	60,26	65,78

(b) An employer shall to paragraph (a), pay to each member of the undermentioned classes of his employees, other than casual employees, the minimum wages specified hereunder:

	In the Magisterial Districts of Alberton, Bellville, Benoni, Boksburg, Brakpan, Chatsworth, Durban, Germiston, Goodwood, Johannesburg, Kempton Park, Krugersdorp, Nigel, Oberholzer, Pinetown, Port Elizabeth, Pretoria, Randburg, Randfontein, Roodepoort, Simon's Town, Springs, The Cape, Uitenhage, Vanderbijlpark, Vereeniging, Westonaria, Wonderboom and Wynberg		In the Magisterial Districts of Bloemfontein, Brits, East London, Inanda, Kimberley and Pietermaritzburg		In the Magisterial Districts of Knysna and Oudtshoorn		In the Magisterial District of Harrismith and the municipal area of Potgietersrus	
	During the first 12 months after this amendment becomes binding	Thereafter	During the first 12 months after this amendment becomes binding	Thereafter	During the first 12 months after this amendment becomes binding	Thereafter	During the first 12 months after this amendment becomes binding	Thereafter
	Per week R	Per week R	Per week R	Per week R	Per week R	Per week R	Per week R	Per week R
Artisan.....	187,22	194,58	167,44	173,88	149,96	155,94	137,54	143,06
Assistant foreman.....	170,20	177,56	152,26	158,70	136,16	142,14	125,12	130,64
Boiler attendant.....	82,34	89,70	73,60	80,04	65,78	71,76	60,26	65,78
Chargehand.....	82,34	89,70	73,60	80,04	65,78	71,76	60,26	65,78
Clerk—								
during the first year of experience.....	90,62	97,98	80,96	87,40	72,68	78,66	66,70	72,22
during the second year of experience....	109,48	116,84	98,90	105,34	89,24	95,22	81,88	87,40
during the third year of experience.....	128,34	135,70	116,38	122,82	105,80	111,78	96,60	102,12
thereafter.....	147,20	154,56	134,32	140,76	122,36	128,34	112,24	117,76
Driver of—								
a light motor vehicle.....	91,54	98,90	81,88	88,32	74,98	80,96	69,00	74,52
a medium motor vehicle.....	107,64	115,00	96,14	102,58	87,86	93,84	80,50	86,02
a heavy motor vehicle.....	120,98	128,34	109,02	115,46	100,28	106,26	92,92	98,44
an extra heavy motor vehicle.....	136,16	143,52	121,44	127,88	109,02	115,00	99,82	105,34
First-aid attendant.....	93,38	100,74	83,72	90,16	74,98	80,96	68,54	74,06
Foreman.....	198,26	205,62	177,56	184,00	158,70	164,68	145,82	151,34
General worker—								
during the first six months of employment with the same employer	66,24	73,14	59,34	65,32	52,92	58,42	48,30	53,36
thereafter.....	73,60	80,96	65,78	72,22	58,88	64,86	53,82	59,34

	In the Magisterial Districts of Alberton, Bellville, Benoni, Boksburg, Brakpan, Chatsworth, Durban, Germiston, Goodwood, Johannesburg, Kempton Park, Krugersdorp, Nigel, Oberholzer, Pinetown, Port Elizabeth, Pretoria, Randburg, Randfontein, Roodepoort, Simon's Town, Springs, The Cape, Uitenhage, Vanderbijlpark, Vereeniging, Westonaria, Wonderboom and Wynberg		In the Magisterial Districts of Bloemfontein, Brits, East London, Inanda, Kimberley and Pietermaritzburg		In the Magisterial Districts of Knysna and Oudtshoorn		In the Magisterial District of Harrismith and the municipal area of Potgietersrus	
	During the first 12 months after this amendment becomes binding	Thereafter	During the first 12 months after this amendment becomes binding	Thereafter	During the first 12 months after this amendment becomes binding	Thereafter	During the first 12 months after this amendment becomes binding	Thereafter
	Per week R	Per week R	Per week R	Per week R	Per week R	Per week R	Per week R	Per week R
Grade I employee—								
during the first six months of experience	85,10	92,46	75,90	82,34	68,08	74,06	62,10	67,62
during the second six months of experience	87,86	95,22	78,66	85,10	70,38	76,36	64,40	69,92
thereafter	90,62	97,98	80,96	87,40	72,68	78,66	66,70	72,22
Grade II employee—								
during the first three months of experience	78,66	86,02	69,92	76,36	63,02	69,00	57,50	63,02
during the second three months of experience	81,88	89,24	73,14	79,58	65,32	71,30	59,80	65,32
thereafter	85,10	92,46	75,90	82,34	68,08	74,06	62,10	67,62
Grade III employee—								
during the first three months of experience	73,60	80,96	65,78	72,22	58,88	64,86	53,82	59,34
thereafter	78,66	86,02	70,38	76,82	63,02	69,00	57,50	63,02
Handyman	102,12	109,48	91,08	97,52	81,42	87,40	74,52	80,04
Machine handyman	113,16	120,52	101,20	107,64	90,62	96,60	83,26	88,78
Mobile hoist operator—								
during the first three months of experience	82,34	89,70	73,60	80,04	65,78	71,76	60,26	65,78
thereafter	90,62	97,98	80,96	87,40	72,68	78,66	66,70	72,22
Security guard	93,38	100,74	83,72	90,16	74,98	80,96	68,54	74,06
Watchman	83,72	91,08	74,52	80,96	67,16	73,14	61,18	66,70
Employee not specifically mentioned elsewhere in this subclause	82,34	89,70	73,60	80,04	65,78	71,76	60,26	65,78

(c) *Los werknemers*.—Behoudens paragraaf (a) moet 'n werkgever aan sy los werknemer vir elke dag of gedeelte van 'n dag diens, uitgesonderd diens op 'n openbare vakansiedag, soos omskryf, of op 'n Sondag, minstens die dagloon voorgeskryf vir 'n werknemer in dieselfde gebied wat vir die werkgever dieselfde klas werk verrig as dié wat van die los werknemer vereis word betaal, of nie minder nie as die werklike dagloon wat sodanige werknemer betaal word, welke bedrag ook al die hoogste is, plus 15 persent: Met dien verstande dat—

- (i) vir die toepassing van hierdie paragraaf die uitdrukking 'sodanige werknemer' die werknemer van die betrokke klas aan wie die werkgever die laagste loon betaal, beteken;
- (ii) waar die werkgever van die los werknemer vereis om—
 - (aa) die werk te verrig van 'n klas werknemer vir wie 'n loon teen 'n stygende skaal voorgeskryf word, die uitdrukking 'dagloon' die dagloon vir 'n gekwalifiseerde werknemer van daardie klas, soos bereken ingevolge subklousule 4 (c) beteken;
 - (ab) vir 'n tydperk van hoogstens vier agtereenvolgende ure op enige dag te werk, sy loon waarna in hierdie paragraaf verwys word, met hoogstens 50 persent ten opsigte van sodanige dag verminder kan word."

3. In klousule 5—

- (1) vervang die bedrag "R1 250" deur die bedrag "R1 430" in subklousule (7) (a) (i);
- (2) vervang die bedrag "R1 350" deur die bedrag "R1 550" in subklousule (7) (a) (ii).

No. R. 2650

4 Desember 1987

WET OP MANNEKRAGOPLEIDING, 1981

NATIONALE MANNEKRAGOPLEIDINGSKOMITEE VIR DIE MYNBOUNYWERHEID.—AANWYSIGING VAN AMBAGTE EN VOORSKRYWING VAN LEERVOORWAARDES

Ek, Pieter Theunis Christiaan du Plessis, Minister van Mannekrag en van Openbare Werke en Grondsaake, handelende kragtens artikel 13 van die Wet op Mannekragopleiding, 1981—

- (a) wys hierby vir die Mynbounywerheid in die provinsie Transvaal, die provinsie die Oranje-Vrystaat, die provinsie Natal en die landdrostdistrikte Barkly-Wes, Britstown, De Aar, Gordonia, Hartswater, Hay, Herbert, Hopetown, Kenhardt, Kimberley, Kuruman, Philipstown, Postmasburg, Prieska, Vryburg en Warrenton die ambagte hieronder vermeld, aan as ambagte ten opsigte waarvan die Wet met ingang van die derde Maandag na die datum van publikasie van hierdie kennisgewing van toepassing is:

AMBAGTE

1. Dieselwerktuigkundige/Grondverskuiwingsmasjineriewerktuigkundige (5)
2. Elektriesiën (6)
3. Grofsmid (1)
4. Instrumentwerktuigkundige (Industrieël) (9)
5. Loodgieter (16)
6. Messelaar (2)
7. Modelmaker (13)
8. Motorwerktuigkundige (10)
9. Passer (met inbegrip van Masjinerig) (7)
10. Passer en Draaier (8)
11. Plaatmetaalwerker (18)
12. Plaatwerker (14)
13. Plaatwerker (Ketelmaker) (15)
14. Skilder en Versierder (12)
15. Sweiser (19)

618—C

(c) *Casual employees*.—Subject to paragraph (a), an employer shall pay a casual employee for each day or part of a day of employment, other than employment on a public holiday as defined or on a Sunday, not less than the daily wage prescribed for an employee in the same area who performs the same class of work as the casual employee is required to do, or not less than the daily wage actually being paid to such an employee, whichever is the greater amount, plus 15 per cent: Provided that—

- (i) for the purposes of this paragraph the expression 'such an employee' shall mean the employee of that class to whom the employer is paying the lowest wage;
- (ii) where the employer requires a casual employee—
 - (aa) to perform the work of a class of employee for whom wages on a rising scale are prescribed, the expression 'daily wage' shall mean the daily wage prescribed for a qualified employee of that class as calculated in terms of subclause (4) (c);
 - (ab) to work for a period of not more than four consecutive hours on any day, his wage so referred to in this paragraph may be reduced by not more than 50 percent in respect of that day."

3. In clause 5—

- (1) substitute in subclause (7) (a) (i) the amount "R1 430" for the amount "R1 250";
- (2) substitute in subclause (7) (a) (ii) the amount "R1 550" for the amount "R1 350".

No. R. 2650

4 December 1987

MANPOWER TRAINING ACT, 1981

NATIONAL MANPOWER TRAINING COMMITTEE FOR THE MINING INDUSTRY.—DESIGNATION OF TRADES AND PRESCRIPTION OF CONDITIONS OF APPRENTICESHIP

I, Pieter Theunis Christiaan du Plessis, Minister of Manpower and of Public Works and Land Affairs, acting in terms of section 13 of the Manpower Training Act, 1981, hereby—

- (a) designate for the Mining Industry in the Province of the Transvaal, the Province of the Orange Free State, the Province of Natal and the Magisterial Districts of Barkly West, Britstown, De Aar, Gordonia, Hartswater, Hay, Herbert, Hopetown, Kenhardt, Kimberley, Kuruman, Philipstown, Postmasburg, Prieska, Vryburg and Warrenton, the undermentioned trades as trades to which the Act shall apply with effect from the third Monday after the date of publication of this notice:

TRADES

1. Blacksmith (3)
2. Bricklayer (6)
3. Carpenter (17)
4. Carpenter and Joiner (18)
5. Diesel Mechanic/Earth Moving Equipment Mechanic (1)
6. Electrician (2)
7. Fitter (including Machining) (9)
8. Fitter and Turner (10)
9. Instrument Mechanician (Industrial) (4)
10. Motor Mechanic (8)
11. Moulder (19)
12. Painter and Decorator (14)
13. Patternmaker (7)
14. Plater (12)
15. Plater (Boilermaker) (13)

- 16. Takelaar en Touwerker (17)
- 17. Timmerman (3)
- 18. Timmerman en Skryner (4)
- 19. Vormgieter; (11)

(b) skryf hierby, met ingang van die derde Maandag na die datum van publikasie van hierdie kennisgewing, die Leervoordes hieronder gemeld voor as leervoordes te opsigte van die ambagte aangewys in paragraaf (a) vir die Nywerheid en gebiede daarin genoem;

(c) bepaal hierby dat die ondergenoemde Leervoordes met ingang van die derde Maandag na die datum van publikasie van hierdie kennisgewing ook van toepassing is op vakleerlinge wat in diens van ingeboek is in 'n ambag wat 'n aangewese ambag is of was in die Nywerheid en gebied waarvoor gemelde Komitee ingestel is.

Vir die doeleindes van hierdie kennisgewing beteken "Mynbounywerheid" of "Nywerheid" die nywerheid waarin werkgewers en werknemers met mekaar geassosieer is met die doel om mynbouaktiwiteite en daarmee gepaardgaande werksaamhede te beoefen. Vir die doel van hierdie paragraaf sluit die uitdrukking "mynbouaktiwiteite" die volgende in—

- (i) die soek na of winning van 'n delfstof, soos omskryf in artikel 1 van die Wet op Myne en Bedrywe, 1956 (Wet 27 van 1956);
- (ii) die vergruising, reduksie, bereiding, konsentring, ekstraksie, smelting of prosessering van sulke delfstowwe of enige bestanddeel daarvan met dien verstand dat sodanige aktiwiteit plaasvind deur of ten behoeve van die myneienaar op persele op of aangrensend aan die myn;
- (iii) die raffinering van onedelmetale op enige persele of plek aangrensend aan persele waar enige werksaamheid voorgenome in die voorgaande subparagrafe van hierdie paragraaf uitgevoer word; en
- (iv) die raffinering van edelmetale op enige persele.

Vir die doeleindes hiervan het die uitdrukking "edelmetale" die betekenis wat daaraan geheg is in artikel 1 van die Wet op Mynregte, 1967 (Wet 20 van 1967).

- (d) Trek hierby Goewermentskennisgewing R. 1162 van 15 Junie 1984, Goewermentskennisgewing R. 1699 van 25 Augustus 1978 (soos toegepas by Goewermentskennisgewing R. 2266 van 17 November 1978), Goewermentskennisgewing R. 16 van 4 Januarie 1980 (soos toegepas by Goewermentskennisgewing R. 253 van 11 Februarie 1983), Goewermentskennisgewing R. 2 van 4 Januarie 1985 en Goewermentskennisgewing R. 2643 van 29 November 1985 in.

P. T. C. DU PLESSIS,

Minister van Mannekrag en van Openbare Werke en Grond-sake.

VOORWAARDES

1. KWALIFIKASIES OM MET VAKLEERLINGSKAP TE BEGIN

Die minimum leeftyd en opvoedkundige kwalifikasies om met vakleerlingskap te begin, is—

- (a) 18 jaar in die ambag Takelaar en Touwerker; en
- (b) 16 jaar in alle ander ambagte; en

- 16. Plumber (5)

- 17. Rigger and Ropeman (16)

- 18. Sheetmetal Worker (11)

- 19. Welder; (15)

(b) prescribe, with effect from the third Monday after the date of publication of this notice, the Conditions set out hereunder as conditions of apprenticeship in respect of the trades designated in paragraph (a) in the Industry and the areas mentioned therein;

(c) determine that the Conditions of Apprenticeship set out hereunder shall, with effect from the third Monday after the date of publication of this notice, also apply to apprentices who are employed or indentured in any trade which is or was a designated trade in the Industry and area for which the said Committee has been established.

For the purposes of this notice, "Mining Industry" or "Industry" means the industry in which employers and their employees are associated for the purpose of carrying on mining activities or any operation necessary or incidental thereto. For the purpose of this paragraph the term "mining activities" includes—

- (i) the searching for or winning of minerals, as defined in section 1 of the Mines and Works Act, 1956 (Act 27 of 1956);
- (ii) the crushing, reducing, dressing, concentrating, extracting, smelting or processing of such minerals or any constituent of such minerals provided such activity takes place by or for the mine owner on premises on or contiguous to the mine;
- (iii) the refining of non-precious metals on any premises or place contiguous to such premises where any operation contemplated in the preceding subparagraphs of this paragraph is carried on; and
- (iv) the refining of precious metals on any premises.

For the purposes hereof the term "precious metals" shall bear the meaning assigned thereto in section 1 of the Mining Rights Act, 1967 (Act 20 of 1967).

- (d) Withdraw Government Notice R. 1162 of 15 June 1984, Government Notice R. 1699 of 25 August 1978 (as applied by Government Notice R. 2266 of 17 November 1978), Government Notice R. 16 of 4 January 1980 (as applied by Government Notice R. 253 of 11 February 1983), Government Notice R. 2 of 4 January 1985 and Government Notice R. 2643 of 29 November 1985.

P. T. C. DU PLESSIS,

Minister of Manpower and of Public Works and Land Affairs.

CONDITIONS

1. QUALIFICATIONS FOR COMMENCING APPRENTICESHIP

The minimum age and educational qualifications for commencing apprenticeship shall be—

- (a) 18 years in the trade Rigger and Ropeman; and
- (b) 16 years in all other trades; and

- (c) standard VII of 'n verklaring van prestasie, uitgereik deur of namens die skool wat deur die vakleerling besoek is, waarin gemeld word dat hy op die standard VII-peil geslaag het in die vakke Afrikaans, Engels, Rekenkunde of Algemene Wiskunde en minstens een ander vak vir al die aangewese ambagte met die uitsondering van die ambag Elektriesien; en
- (d) standard VIII of 'n verklaring van prestasie, uitgereik deur of namens die skool wat deur die vakleerling besoek is, waarin gemeld word dat hy op die standard VIII-peil geslaag het in die vakke Afrikaans, Engels, Wiskunde en minstens twee ander vakke vir die ambag Elektriesien.

2. LEERTYD

(1) Behoudens subklousule (2) is die leertyd drie jaar in die aangewese ambag Takelaar en Touwerker en vier jaar in alle ander aangewese ambagte.

(2) (a) Die leertyd van 'n vakleerling wat, hetsy voor of gedurende sy leertyd ingevolge die Verdedigingswet, 1957 (Wet 44 van 1957), opleiding ondergaan het of diens gedoen het, word verkort met 'n tydperk van hoogstens—

- (i) agt maande ten opsigte van 'n eerste tydperk van 24 maande of langer; of
- (ii) ses maande ten opsigte van 'n eerste tydperk van 18 maande; of
- (iii) vier maande ten opsigte van 'n eerste tydperk van 12 maande; en
- (iv) 30 dae van enige daaropvolgende tydperk

van sodanige opleiding of diens.

(b) Die leertyd van 'n vakleerling wat hetsy voor of gedurende sy leertyd, ingevolge artikel 34A (3) van die Polisie-wet, 1958 (Wet 7 van 1958), opleiding ondergaan het of diens gedoen het, word verkort met 'n tydperk van hoogstens—

- (i) in die geval van opleiding of diens ingevolge artikel 34A (11) van genoemde Wet—
 - (aa) agt maande ten opsigte van 'n eerste tydperk van 24 maande; of
 - (ab) vier maande ten opsigte van 'n eerste tydperk van 12 maande; en
 - (ac) 30 dae van enige daaropvolgende tydperk

van sodanige opleiding of diens;

- (ii) in die geval van enige ander opleiding of diens wat ingevolge bedoelde artikel 34A (3) ondergaan of gedoen word, 'n tydperk gelyk aan die tydperk van sodanige opleiding of diens, maar wat nie 90 dae in 'n jaar oorskry nie.

(c) Ondanks die bepalinge van paragraaf (a) of (b) is 'n vakleerling nie geregtig nie op 'n verkorting van sy leertyd ingevolge paragrawe (a) (iv) en (b) (i) (ac) van meer as 90 dae ten opsigte van opleiding of diens ingevolge paragraaf (a) of (b), voor sy leertyd gelewer.

(d) Enige verkorting van die leertyd ingevolge hierdie subklousule tree in werking met ingang van die datum waarop die vakleerling met sy leertyd begin of dit voortsit na sy terugkeer van opleiding of diens ingevolge die Verdedigingswet, 1957, of die Polisiewet, 1958.

(e) Die werkgever van 'n vakleerling in paragraaf (a) of (b) bedoel, moet die sekretaris van die betrokke komitee binne sewe dae na die vakleerling se vertrek vir opleiding of diens ingevolge die Verdedigingswet, 1957, of die Polisie-wet, 1958, in kennis stel van sodanige vertrek en, insge-lyks, binne sewe dae na die vakleerling se terugkeer van sodanige opleiding of diens.

- (c) Standard VII or a statement of attainment issued by or on behalf of the school attended by the apprentice reflecting a pass at Standard VII level in the subjects Afrikaans, English, Arithmetic or General Mathematics and at least one other subjects for all designated trades with the exception of the trade Electrician; and
- (d) Standard VIII or a statement of attainment issued by or on behalf of the school attended by the apprentice reflecting a pass at Standard VIII level in the subjects Afrikaans, English, Mathematics and at least two other subjects for the trade Electrician.

2. PERIOD OF APPRENTICESHIP

(1) Subject to subclause (2), the period of apprenticeship shall be three years in the designated trade Rigger and Ropeman and four years in all other designated trades.

(2) (a) The period of apprenticeship of an apprentice who, whether prior to or during his apprenticeship, has undergone training or rendered service in terms of the Defence Act, 1957 (Act 44 of 1957), shall be reduced by a period not exceeding—

- (i) eight months in respect of a first period of 24 months or longer; or
- (ii) six months in respect of a first period of 18 months; or
- (iii) four months in respect of a first period of 12 months; and
- (iv) 30 days of any subsequent period.

of such training or service.

(b) The period of apprenticeship of any apprentice who, whether prior to or during his apprenticeship, has undergone training or rendered service in terms of section 34A (3) of the Police Act, 1958 (Act 7 of 1958), shall be reduced by a period not exceeding—

- (i) in the case of training or service in terms of section 34A (11) of the said Act—
 - (aa) eight months in respect of a first period of 24 months; or
 - (ab) four months in respect of a first period of 12 months; and
 - (ac) 30 days of any subsequent period

of such training or service;

- (ii) in the case of any other training or service which is undergone or rendered in terms of the said section 34A (3), a period equal to the period of such training or service, but not exceeding 90 days in any year.

(c) Notwithstanding the provisions of paragraph (a) or (b) an apprentice shall not be entitled to a reduction in his period of apprenticeship under paragraphs (a) (iv) and (b) (i) (ac) of more than 90 days in respect of training or service under paragraph (a) or (b) rendered prior to his apprenticeship.

(d) Any reduction in the period of apprenticeship in terms of this subclause shall operate with effect from the date upon which an apprentice commences his apprenticeship or resumes his apprenticeship after returning from training or service in terms of the Defence Act, 1957, or the Police Act, 1958.

(e) The employer of an apprentice referred to in paragraph (a) or (b) shall, within seven days of the departure of the apprentice on training or service in terms of the Defence Act, 1957, or the Police Act, 1958, notify the secretary of the committee in question of such departure and shall do likewise within seven days after the apprentice returns from such training or service.

3. LONE

(1) 'n Werkgewer met 'n vakleerling maandeliks besoldig teen minstens die skale hieronder gespesifiseer:

(a) Minderjarige vakleerlinge: Jaar van opleiding

	Basiese tarief per maand R
<i>In 4-jaar-ambagte</i>	
Eerste jaar	464
Tweede jaar	550
Derde jaar	647
Vierde jaar	765
<i>In 3-jaar-ambagte</i>	
Eerste jaar	550
Tweede jaar	647
Derde jaar	765

(b) Meerderjarige vakleerlinge

Ouderdom by begin van vakleerlingskap en basiese tarief per maand

	21 jr.	22 jr.	23 jr.	24 jr.	25+ jr.
<i>In 4-jaar-ambagte</i>	R	R	R	R	R
Eerste jaar	511	557	604	650	696
Tweede jaar	605	660	715	770	825
Derde jaar	712	777	842	906	971
Vierde jaar	842	918	995	1 071	1 148
<i>In 3-jaar-ambagte</i>					
Eerste jaar	605	660	715	770	825
Tweede jaar	712	777	842	906	971
Derde jaar	842	918	995	1 071	1 148

(2) Indien 'n vakleerling 'n meerderjarige is wanneer hy 'n leerlingkontrak aangaan, moet sy werkgewer die loon wat ooreenkomstig paragraaf (a) bereken word met die volgende verhoog:

- 10 persent indien die meerderjarige vakleerling 21 jaar oud is;
- 20 persent indien die meerderjarige vakleerling 22 jaar oud is;
- 30 persent indien die meerderjarige vakleerling 23 jaar oud is;
- 40 persent indien die meerderjarige vakleerling 24 jaar oud is;
- 50 persent indien die meerderjarige vakleerling 25 jaar en ouer is:

Met dien verstande dat vir die doeleindes van hierdie voorbehoudsbepaling die ouderdom van 'n meerderjarige vakleerling bepaal moet word deur 'n tydperk wat gelykstaande is met enige tydperk wat hy gedien het en wat ingevolge sy leerlingkontrak as 'n gedeelte van die voorgeskrewe leertyd erken word, daarvan af te trek.

(3) 'n Werkgewer moet die loon voorgeskryf in hierdie klousule ten opsigte van elke vakleerling wat enige van die opvoedkundige kwalifikasies, in die Bylae hieronder vermeld, of gelykwaardige kwalifikasies, besit of verwerf, verhoog met minstens die bedrag in die Bylae vermeld. Die bedrae aldus betaalbaar, is nie kumulatief nie, maar is betaalbaar ten opsigte van slegs een, te wete die hoogste sertifikaat of diploma wat verwerf is. Enige bedrag waarop 'n vakleerling ingevolge hierdie subklousule geregtig is, moet, waar die sertifikaat of diploma gedurende sy leertyd verwerf is, betaal word vanaf die datum van uitreiking daarvan. Niks in hierdie subklousule vervat, mag die uitwerking hê dat die bedrag wat 'n werkgewer aan 'n vakleerling moet betaal ten opsigte van opvoedkundige kwalifikasies voorgeskryf in enige vorige leervoorskrif vir die Nywerheid, verminder word nie.

3. WAGES

(1) An employer shall pay an apprentice monthly at not less than the rates specified below:

(a) Minor apprentices: Year of training

	Basic rate per month R
<i>In 4-year trades</i>	
First year	464
Second year	550
Third year	647
Fourth year	765
<i>In 3-year trades</i>	
First year	550
Second year	647
Third year	765

(b) Major apprentices

Commencing age and related basic rate per month

	21 yrs	22 yrs	23 yrs	24 yrs	25+ yrs
<i>In 4-year trades</i>	R	R	R	R	R
First year	511	557	604	650	696
Second year	605	660	715	770	825
Third year	712	777	842	906	971
Fourth year	842	918	995	1 071	1 148
<i>In 3-year trades</i>					
First year	605	660	715	770	825
Second year	712	777	842	906	971
Third year	842	918	995	1 071	1 148

(2) If an apprentice is a major on entering into a contract of apprenticeship, an employer shall increase the wage prescribed in subclause (a) by—

- 10 per cent if the major apprentice is 21 years of age;
- 20 per cent if the major apprentice is 22 years of age;
- 30 per cent if the major apprentice is 23 years of age;
- 40 per cent if the major apprentice is 24 years of age;
- 50 per cent if the major apprentice is 25 years of age:

Provided that for the purpose of this proviso the age of a major apprentice shall be determined by deducting from his age a period equivalent to any period served by him and recognised in terms of his contract of apprenticeship as part of the prescribed period of apprenticeship.

(3) An employer shall increase the wage prescribed in this clause in respect of every apprentice who possesses or obtains any of the educational qualifications scheduled below or equivalents, by an amount of not less than that indicated in the Schedule. The amounts so payable shall not be cumulative but shall be payable in respect of only one, i.e. the highest certificate or diploma obtained. Any amount to which an apprentice is entitled in terms of this subclause shall, where the certificate or diploma is obtained during his apprenticeship, be payable as from the date of issue thereof. Nothing in this subclause shall operate to reduce the amount which an employer was required to pay an apprentice in respect of educational qualifications prescribed in any previous conditions of apprenticeship for the Industry.

BYLAE		SCHEDULE	
Opvoedkundige kwalifikasies verwerf voor of gedurende vakleerlingskap	Per maand	Educational qualifications obtained prior to or during apprenticeship	Per month
Groep I		Group I	
A. Akademiese of tegniese studierigting		A. Academic or technical field of study	
(i) Standaard 9-sertifikaat met Wiskunde		(i) Standard 9 certificate with Mathematics	
(ii) Standaard 10-sertifikaat sonder Wiskunde		(ii) Standard 10 certificate without Mathematics	
(iii) Standaard 8-sertifikaat met die betrokke ambagsteorie en Werkwinkelpraktyk		(iii) Standard 8 certificate with the relevant trade theory and Workshop Practice	
B. Praktiese kursus		B. Practical course	
(i) Standaard 10 praktiese sertifikaat met Wiskunde en Wetenskap		(i) Standard 10 practical certificate with Mathematics and Science	
(ii) Standaard 10 praktiese sertifikaat met die betrokke ambagsteorie en Werkwinkelpraktyk		(ii) Standard 10 practical certificate with the relevant trade theory and Workshop Practice	
C. Tegniese studierigting		C. Technical field of study	
(i) Vier vakke op die vlak van die Nasionale Tegniese Sertifikaat, Deel I (N1), met die betrokke ambagsteorie		(i) Four subjects at the National Technical Certificate, Part I (N1), level with the relevant trade theory	
(ii) Drie vakke op die vlak van die Nasionale Tegniese Sertifikaat, Deel II (N2) met die betrokke ambagsteorie		(ii) Three subjects at the National Technical Certificate, Part II (N2), level with the relevant trade theory	
	R45		R45
Groep II		Group II	
A. Akademiese of tegniese studierigting		A. Academic or technical field of study	
(i) Standaard 9-sertifikaat met Wiskunde en Wetenskap of die betrokke ambagsteorie en Werkwinkelpraktyk		(i) Standard 9 certificate with Mathematics and Science or the relevant trade theory and Workshop Practice	
(ii) Standaard 10-sertifikaat met Wiskunde		(ii) Standard 10 certificate with Mathematics	
B. Tegniese studierigting		B. Technical field of study	
(i) Vier vakke op die vlak van die Nasionale Tegniese Sertifikaat, Deel II (N2), met die betrokke ambagsteorie		(i) Four subjects at the National Technical Certificate, Part II (N2), level with the relevant trade theory	
(ii) Drie vakke op die vlak van die Nasionale Tegniese Sertifikaat, Deel III (N3) met die betrokke ambagsteorie		(ii) Three subjects at the National Technical Certificate, Part III (N3), level with the relevant trade theory	
	R55		R55
Groep III		Group III	
A. Akademiese of tegniese studierigting		A. Academic or technical field of study	
Standaard 10-sertifikaat met Wiskunde en Wetenskap of die betrokke ambagsteorie en Werkwinkelpraktyk		Standard 10 certificate with Mathematics and Science or the relevant trade theory and Workshop Practice	
B. Tegniese studierigting		B. Technical field of study	
Vier vakke op die vlak van die Nasionale Tegniese Sertifikaat, Deel III (N3), met die betrokke ambagsteorie		Four subjects at the National Technical Certificate, Part III (N3), level with the relevant trade theory	
	R65		R65
Groep IV		Group IV	
Vier vakke op die vlak van die Nasionale Tegniese Sertifikaat, Deel IV (N4)		Four subjects at the National Technical Certificate, Part IV (N4), level	
	R80		R80
Groep V		Group V	
Vier vakke op die vlak van die Nasionale Tegniese Sertifikaat, Deel V (N5)		Four subjects at the National Technical Certificate, Part V (N5), level	
	R90		90
Groep VI		Group VI	
Nasionale Tegniese Diploma (N6)		National Technical Diploma (N6)	
	R105		105

(4) Indien 'n werkgewer en 'n voornemende meerderjarige vakleerling, voordat hulle 'n vakleerlingkontrak aangaan, ooreenkom dat besoldiging teen 'n hoër skaal betaal moet word as dié wat in hierdie klousule voorgeskrif word, moet sodanige hoër loon in die kontrak gemeld en aan die vakleerling betaal word.

4. TEGNIESE STUDIES

(1) 'n Vakleerling wat nie reeds ten opsigte van vakke wat betrekking het op die ambag waarvoor hy ingeboek is, in besit is nie van een van die sertifikate in subklousule (2) van hierdie klousule voorgeskrif, of van een van die alternatiewe kwalifikasies in die voorbehoudsbepaling van die betrokke subklousule bedoel, moet tegniese klasse bywoon wat op sodanige ambag betrekking het en ooreenkom met die leerplanne voorgeskrif vir die Nasionale Tegniese Sertifikaat, Dele I en II (N1 en N2), of 'n gelykwaardige sertifikaat, en sodanige klasse moet aangebied word by 'n tegniese inrigting wat deur die Departement van Mannekrag bepaal word. Met dien verstande dat waar daar geen fasiliteite vir die bywoning van klasse in 'n kursus of 'n gedeelte

(4) Should an employer and a prospective major apprentice, prior to entering into a contract of apprenticeship, agree upon a higher rate of remuneration than that prescribed in this clause then such higher rate shall be incorporated in the contract and shall be paid to the apprentice.

4. TECHNICAL STUDIES

(1) An apprentice who is not already in possession of one of the certificates prescribed in subclause (2) of this clause in subjects related to the trade in which he is indentured or of one of the alternative qualifications referred to in the proviso to that subclause shall attend technical classes relevant to such trade and in accordance with the syllabuses prescribed for the National Technical Certificate, Parts I and II (N1 and N2), or equivalent certificate, and such classes shall be conducted at a technical institution determined by the Department of Manpower: Provided that where facilities for class attendance in any course or part thereof do not exist within 20km of the residence of an apprentice, or within 20km of his place of work where

daarvan beskikbaar is nie binne 20 km vanaf die woning van 'n vakleerling, of binne 20 km vanaf sy werkplek waar daar van hom vereis word om klasse gedurende sy gewone werkure by te woon, hy in plaas van die bywoning van klasse 'n korrespondensiekursus kan volg wat deur die Tegnieke Kollege van Suid-Afrika, Johannesburg, vir genoemde kursus of gedeelte daarvan aangebied word: Met dien verstande voorts dat 'n vakleerling 'n inleidende kursus aan 'n tegniese inrigting moet volg, indien die Departement van Mannekrag dit vereis, ter voorbereiding vir die Nasionale Tegnieke Sertifikaat Deel I (N1).

(2) 'n Vakleerling moet tegniese klasse bywoon of korrespondensiekursusse volg totdat hy die Nasionale Tegnieke Sertifikaat, Deel II (N2) of T1 of gelykwaardige tegniese sertifikaat verwerf het: Met dien verstande dat daar nie van 'n vakleerling wat in die eksamen vir een van genoemde sertifikate druip maar wat in die ambagsteorie wat betrekking het op die ambag waarvoor hy ingeboek is, op N2-peil slaag of in die betrokke Werkwinkeltegnologie of Toegepaste Tegnologie op T1-peil of op die peil van 'n gelykwaardige tegniese sertifikaat slaag, vereis word om verder klasse by te woon of verdere korrespondensiekursusse te volg nie, na gelang van die geval: Met dien verstande voorts dat daar nie van 'n vakleerling vereis word om verdere klasse by te woon of verdere korrespondensiekursusse te volg nie, na gelang van die geval, indien hy, nadat hy 'n aaneenlopende studiekursus bygewoon het of nadat hy twee jaar lank klasse bygewoon het of twee jaar lank 'n korrespondensiekursus gevolg het of na 'n kombinasie van klasbywoning en korrespondensiekursusstudies van altesaam twee jaar, nie die sertifikaat verwerf het waarvoor hy ten tyde van die aanvang van sy tegniese studies ingeskryf het nie.

(3) (a) Waar fasiliteite vir die bywoning van tegniese klasse by wyse van 'n aaneenlopende studiekursus bestaan, moet 'n vakleerling sodanige klasse op vyf dae per week gedurende sy gewone werkure bywoon vir die duur van die eerste volledige kursus wat hy, behalwe as gevolg van afwesigheid van die aard in subklousule (5) bedoel, in staat is om by te woon.

(b) Waar fasiliteite van die aard in paragraaf (a) bedoel, nie bestaan nie, moet 'n vakleerling binne 30 dae na die datum van registrasie van sy kontrak, of as hy op daardie datum ingevolge die Verdedigingswet, 1957, of die Polisie-wet, 1958, opleiding ondergaan of diens doen, binne 30 dae na sy terugkeer van sodanige opleiding of diens, vir klasbywoning of 'n korrespondensiekursus, na gelang van die geval, inskryf en moet hy die klasse begin bywoon of die kursus begin volg met ingang van die datum wat die betrokke inrigting bepaal. Sodanige bywoning geskied een akademiese jaar lank gedurende die vakleerling se gewone werkure, so na doenlik—

(i) aan agt uur op een dag per week; of

(ii) aan vier uur op elk van twee dae per week: Met dien verstande dat bywoning in geen geval tot later as 19h15 mag duur nie.

(c) Verpligte bywoning van klasse nadat 'n vakleerling aan die vereiste van paragraaf (a) of (b) voldoen het, moet buite die gewone werkure geskied: Met dien verstande dat, as die vakleerling die volle sertifikaat verwerf waarvoor hy die eksamen afgelê het, hy geregtig is om voort te gaan om klasse gedurende gewone werkure by te woon op die grondslag voorgeskryf in paragraaf (a) of (b), na gelang van die geval.

(d) 'n Werkgewer mag nie van 'n vakleerling wat klasse ooreenkomstig paragraaf (a) bywoon, vereis of hom toelaat om hom vir die duur van sodanige kursus vir werk aan te meld nie.

attendance is required of him during ordinary working hours, he may, in lieu of attendance, take a correspondence course conducted by the Technical College of South Africa, Johannesburg, for the said course or part thereof: Provided further that an apprentice shall, if required by the Department of Manpower, attend an introductory course conducted by a technical institution in preparation for the National Technical Certificate, Part I (N1).

(2) An apprentice shall attend technical classes or take correspondence courses until he obtains the National Technical Certificate, Part II (N2), or T1 or equivalent technical certificate: Provided that an apprentice who fails in the examination for one of the said certificates but obtains a pass in the trade theory relevant to the trade in which he is indentured at N2 level or in relevant Workshop Technology or Applied Technology at T1 level or at an equivalent technical certificate level, shall not be required to attend further classes or take further correspondence courses, as the case may be: Provided further that an apprentice who, after attending a continuous course of study or after two years' class attendance or after taking a correspondence course for two years, or after a combination of class attendance and correspondence course studies for two years in the aggregate, has not obtained the certificate for which he was enrolled at the time of commencement of his technical studies shall not be required to attend further classes or take further correspondence courses, as the case may be.

(3) (a) Where facilities for technical class attendance by continuous course of study exist, an apprentice shall attend such classes on five days per week, during his ordinary hours of work, for the duration of the first complete course which, but for absence of the nature referred to in subclause (5), he is able to attend.

(b) Where facilities of the nature referred to in paragraph (a) do not exist an apprentice shall, within 30 days of the date of registration of his contract, or, if he is at that date undergoing training or rendering service in terms of the Defence Act, 1957, or the Police Act, 1958, within 30 days of his return from such training or service enroll for class attendance or a correspondence course, as the case may be, and shall commence class attendance or take the course from such date as may be determined by the institution concerned. Such attendance shall be for one academic year during the apprentice's ordinary hours of work, as nearly as practicable either—

(i) for eight hours on one day per week; or

(ii) for four hours on each of two days per week: Provided that attendance shall in neither case extend beyond 19h15.

(c) Compulsory attendance of classes after an apprentice has complied with the requirements of paragraph (a) or (b) shall be outside working hours: Provided that if the apprentice obtains the full certificate for which he has written the examination he shall be entitled to continue attending classes during ordinary working hours on the basis prescribed in paragraph (a) or (b), as the case may be.

(d) An apprentice who attends classes in terms of paragraph (a) shall, for the duration of such course, neither be required nor permitted to report for work.

(4) 'n Vakleerling wat 'n korrespondensiekursus ooreenkomstig subklousule (1) en (2) volg, moet, waar die Registrateur van mannekragopleiding 'n studieplek vir sodanige korrespondensiekursus bepaal het, by sodanige plek studeer, en die bepalings van subklousule (3) is *mutatis mutandis* op sodanige vakleerling van toepassing.

(5) Van 'n vakleerling wat as gevolg van afwesigheid vir opleiding of diens ingevolge die Verdedigingswet, 1957, of die Polisiewet, 1958, nie in staat is om tegniese klasse vir die duur van 'n aaneenlopende studiekursus by te woon of om minstens die helfte van 'n akademiese jaar tegniese klasse by te woon of 'n korrespondensiekursus te volg, na gelang van die geval, mag daar nie vereis word om sy studies gedurende sodanige jaar voort te sit nie.

(6) Die bepalings van subklousules (3) en (4) is *mutatis mutandis* van toepassing op 'n vakleerling wat voldoen het aan die bepalings van subklousule (2) of wat reeds in besit is van 'n hoër tegniese kwalifikasie en wat studies in verband met die ambag waarvoor hy ingeboek is, vrywillig voortsit.

5. BETALING VAN KLAS- OF KURSUS- EN EKSAMENGELDE

'n Werkgewer moet aan die betrokke tegniese inrigting die klas- of kursusgelde en die eksamengelde voorskiet wat betaalbaar is deur 'n vakleerling van wie daar vereis word, of wat ooreenkomstig klousule 4 (6) verkies, om enige kursusse by te woon of korrespondensiekursusse te volg of om vir 'n eksamen in te skryf, en kan die bedrag aldus voorgesket van die loon van die vakleerling aftrek in gelyke maandelikse paaielemente gedurende 'n tydperk van 12 maande vanaf die datum waarop die voorskot gemaak is: Met dien verstande dat—

- indien die vakleerling in 'n eksamen die sertifikaat verwerf waarvoor hy ingeskrif het, die volle bedrag wat ten opsigte van klas- of kursusgelde en die gelde vir daardie eksamen afgetrek is, deur die werkgewer aan die vakleerling terugbetaal moet word;
- indien die vakleerling nie daarin slaag om die sertifikaat in (a) gemeld, te verwerf nie, die terugbetaling van klas- of kursusgelde en eksamengelde slegs sal geskied ten opsigte van die vakke waarin hy die betrokke eksamen geslaag het.

6. NOODHULPKLASSE EN EKSAMENS WAT AFGELE MOET WORD

'n Vakleerling moet, gedurende die eerste twee jaar na die datum van registrasie van sy vakleerlingskapkontrak die klasse bywoon en die eksamen aflê in elementêre praktiese noodhulp vir mynwerkers. Sodanige klasse en eksamens moet sover prakties moontlik gedurende gewone werkure aangebied en afgeneem word.

7. ONDERGRONDSE WERK

'n Werkgewer kan van 'n vakleerling wat in besit is van 'n mediese sertifikaat wat ingevolge die Wet op Bedryfsiektes in Myne en Bedrywe, 1973 (Wet 78 van 1973), deur die Mediese Buro vir Bedryfsiektes uitgereik is, vereis om ondergronds te werk.

8. PENSIOENFONDSE

Elke vakleerling wat ingeboek is by—

- 'n werkgewer wat lid is van die Kamer van Mynwese, Suid-Afrika, moet lid word van die Mine Employees' Pension Fund en moet tot genoemde Fonds bydra ooreenkomstig die reëls van sodanige Fonds; en
- die Consolidated Murchison (Transvaal) Goldfields and Development Company Limited en die Rustenburg Platinum Mines Limited moet lid word van die J.C.I. Associated Companies Employee's Pension Fund en moet ingevolge die reëls van die Fonds tot genoemde Fonds bydra.

(4) An apprentice taking a correspondence course in terms of subclauses (1) and (2) shall, where the Registrar of Manpower Training has fixed a place of study for such correspondence course, study at such place, and the provisions of subclause (3) shall *mutatis mutandis* apply to such apprentice.

(5) An apprentice who, because of absences on training or service in terms of the Defence Act, 1957, or the Police Act, 1958, is unable to attend technical classes for the duration of a continuous course of study or to attend technical classes or to take a correspondence course for at least half an academic year, as the case may be, shall not be required to pursue his studies during such year.

(6) The provisions of subclauses (3) and (4) shall *mutatis mutandis* apply to an apprentice who has complied with the provisions of subclause (2) or who is already in possession of a higher technical qualification and voluntarily pursues studies relevant to the trade in which he is indentured.

5. PAYMENT OF CLASS OR COURSE AND EXAMINATION FEES

An employer shall advance to the technical institution concerned the class or course fees and the examination fees payable by an apprentice who is required or who, in terms of clause 4 (6), elects to attend any courses or take correspondence courses or to enter for an examination, and may deduct the amount so advanced from the wages of the apprentice in equal monthly instalments during a period of 12 months from the date on which the advance was made: Provided that—

- if, at an examination, the apprentice obtains the certificate for which he has enrolled, the full amount deducted in respect of class or course fees and the fees for such examination shall be refunded to him by the employer; and
- if the apprentice fails to obtain the certificate mentioned in (a) the refund of class or course fees and examination fees shall be made only in respect of those subjects in which he obtained a pass at the examination concerned.

6. FIRST AID CLASSES AND EXAMINATIONS TO BE TAKEN

An apprentice shall, during the first two years following the date of registration of his contract of apprenticeship, attend the classes and take the examinations in elementary practical first aid for miners. Such classes and examinations shall, as far as practicable, be conducted during normal working hours.

7. UNDERGROUND WORK

An employer may require an apprentice who is in possession of a medical certificate issued by the Medical Bureau for Occupational Diseases in terms of the Occupational Diseases in Mines and Works Act, 1973 (Act 78 of 1973), to work underground.

8. PENSION FUND

Every apprentice who is indentured to—

- an employer who is a member of the Chamber of Mines, South Africa, shall become a member of the Mine Employees' Pension Fund and shall contribute to such fund in terms of the rules of the said Fund; and
- Consolidated Murchison (Transvaal) Goldfields and Development Company Limited and Rustenburg Platinum Mines Limited shall become a member of the J.C.I. Associated Companies Employees' Pension Fund and shall contribute to such Fund in terms of the rules of the said Fund.

9. AMBAGSTOETSE

(1) (a) 'n Vakleerling, uitgesonderd 'n vakleerling wat ingeboek is in die ambag Takelaar en Touwerker, moet so kort doenlik voor die einde van die derde jaar van sy leertyd 'n kwalifiserende ambagstoets wat deur die Departement van Mannekrag afgeneem word, aflê in die praktyk van die ambag waarvoor hy ingeboek is: Met dien verstande dat 112 weke praktiese opleiding, uitgesonderd teoretiese studies aan 'n tegniese kollege, voltooi word alvorens 'n ambagstoets ingevolge hierdie subklousule aangedurf word.

(b) 'n Vakleerling wat druipe in die toets in paragraaf (a) bedoel, kan in sy vierde jaar vrywillig nog 'n kwalifiserende ambagstoets of toetse aflê op 'n datum of datums wat deur die Departement van Mannekrag bepaal word, ongeag of hy in besit is van enige van die opvoedkundige kwalifikasies in subklousule (3) vermeld of nie.

(2) 'n Vakleerling wat in die ambag Takelaar en Touwerker ingeboek is, moet so kort moontlik voor die aanvang van die laaste ses maande van sy leertyd 'n kwalifiserende ambagstoets wat deur die Departement van Mannekrag afgeneem word, aflê in die praktyk van die ambag waarin hy ingeboek is.

(3) 'n Vakleerling uitgesonderd 'n vakleerling wat ingeboek is in die ambag Takelaar en Touwerker wat op die peil van die Nasionale Tegniese Sertifikaat, Deel II (N2) of op gelykwaardige of hoër peil geslaag het in die teorie van die ambag waarin hy ingeboek is of in toepaslike werkwinkel-tegnologie of toegepaste tegnologie op T1-peil, of wat die Nasionale Tegniese Sertifikaat, Deel II (N2) of gelykwaardige of hoër kwalifikasie behaal het in vakke wat op sy ambag betrekking het, kan vrywillig 'n kwalifiserende ambagstoets aflê nadat hy twee-en-'n-half jaar van sy leertyd voltooi het: Met dien verstande dat hy 90 weke praktiese opleiding, uitgesonderd teoretiese studies aan 'n tegniese kollege, voltooi het. 'n Verdere vrywillige kwalifiserende toets of toetse kan afgelê word op 'n datum of datums wat deur die Departement van Mannekrag bepaal word.

(4) 'n Vakleerling wat in die ambag Takelaar en Touwerker ingeboek is en wat op die peil van die Nasionale Tegniese Sertifikaat, Deel II (N2) of op gelykwaardige of hoër peil geslaag het in die teorie van die ambag waarvoor hy ingeboek is of in toepaslike werkwinkeltegnologie of toegepaste tegnologie op T1-peil of wat die Nasionale Tegniese Sertifikaat, Deel II (N2) of gelykwaardige of hoër kwalifikasie behaal het in vakke wat op sy ambag betrekking het, kan vrywillig 'n kwalifiserende ambagstoets aflê nadat hy twee jaar van sy leertyd voltooi het: Met dien verstande dat hy 72 weke praktiese opleiding, uitgesonderd teoretiese studies aan 'n tegniese kollege, voltooi het. 'n Verdere vrywillige kwalifiserende toets of toetse kan afgelê word op 'n datum of datums wat deur die Departement van Mannekrag bepaal word.

(5) 'n Bedrag deur die Departement van Mannekrag bepaal, is deur 'n vakleerling betaalbaar ten opsigte van die tweede of enige daaropvolgende ambagstoets wat op 'n vrywillige grondslag ingevolge hierdie klousule afgelê word.

(6) 'n Werkgewer moet aan 'n vakleerling wat 'n ambagstoets ingevolge hierdie klousule aflê, ten opsigte van die tyd wat in verband met een vrywillige toets en die verpligte toets in beslag geneem word, sy gewone loon betaal ten opsigte van sodanige afwesigheid van sy werk.

(7) 'n Tydperk van afwesigheid van werk met die doel om 'n ambagstoets ingevolge hierdie klousule te ondergaan, word vir die toepassing van artikel 21 van die Wet nie geag afwesigheid van werk te wees nie.

10. OPLEIDINGSKURSUSSE

'n Werkgewer moet 'n vakleerling die praktiese opleiding gee in die ambag waarin hy ingeboek is soos aangedui in die Bylae van hierdie klousule. 'n Vakleerling moet sover prakties moontlik opgelei word onder die gereelde toesig van 'n ambagsman wat bevoeg is om hom op te lei in die ambag waarin hy ingeboek is.

9. TRADE TESTS

(1) (a) An apprentice, other than an apprentice indentured in the trade Rigger and Ropeman, shall undergo a qualifying trade test conducted by the Department of Manpower as shortly as practicable before the end of the third year of his period of apprenticeship in the practice of the trade in which he is indentured: Provided that 112 weeks of practical training, excluding theoretical studies at a technical college, shall be completed before a trade test in terms of this sub-clause is attempted.

(b) An apprentice who fails the test referred to in paragraph (a) may, whether or not he is in possession of any of the educational qualifications mentioned in subclause (3), voluntarily undergo a further qualifying trade test or tests in his fourth year on a date or dates to be determined by the Department of Manpower.

(2) An apprentice who is indentured in the trade Rigger and Ropeman shall undergo a qualifying trade test conducted by the Department of Manpower as shortly as practicable before the commencement of the final six months of his period of apprenticeship in the practice of the trade in which he is indentured.

(3) An apprentice, other than an apprentice indentured in the trade Rigger and Ropeman, who has obtained a pass at National Technical Certificate, Part II (N2), or equivalent or higher level in the theory of the trade in which he is indentured or relevant workshop technology or applied technology at T1 level, or who has obtained the National Technical Certificate, Part II (N2), or equivalent or higher qualification in subjects related to his trade, may voluntarily undergo a qualifying trade test after he has completed two and a half years of his period of apprenticeship: Provided that he has completed 90 weeks of practical training, excluding theoretical studies at a technical college. A further voluntary qualifying test or tests may be undertaken on a date or dates to be determined by the Department of Manpower.

(4) An apprentice indentured in the trade Rigger and Ropeman who has obtained a pass at National Technical Certificate, Part II (N2), or equivalent or higher level in the theory of the trade in which he is indentured, or relevant workshop technology or applied technology at T1 level, or who has obtained the National Technical Certificate, Part II (N2), or equivalent or higher qualification in subjects related to his trade, may voluntarily undergo a qualifying trade test after he has completed two years of his period of apprenticeship: Provided that he has completed 72 weeks of practical training, excluding theoretical studies at a technical college. A further voluntary qualifying test or tests may be undertaken on a date or dates to be determined by the Department of Manpower.

(5) A fee as determined by the Department of Manpower shall be payable by an apprentice in respect of the second or any subsequent trade test undertaken on a voluntary basis in terms of this clause.

(6) An apprentice undergoing a trade test in terms of this clause shall, in respect of the period spent in connection with one voluntary trade test and the compulsory trade test, be paid his ordinary wage by his employer in respect of such period of absence from work.

(7) A period of absence from work for the purpose of undergoing a trade test in terms of this clause shall not be deemed to be absence from work for the purpose of section 21 of the Act.

10. COURSES OF TRAINING

An employer shall provide an apprentice with practical training in the trade in which he is indentured in accordance with the Schedule to this clause. An apprentice shall as far as practicable be trained under the regular supervision of an artisan qualified to train him in the trade in which he is indentured.

BYLAE

Logboek simbool	Klas werk	Praktiese opleiding	Minimum on- derrigtyd per klas werk in uur
		1. DIESELWERKTUIGKUNDIGE/GRONDVERSKUIWINGSMASJINERIE- WERKTUIGKUNDIGE (5)	
1	Induksie	Toepassing van die Myne se Standaardveiligheidskode en prosedures wat op die ambag betrekking het, met besondere aandag aan— myntstandaarde en -prosedures; myntugkode; veiligheidskode en verliesbestryding; die Wet op Mannekragopleiding, 1981, en die betrokke leervooraardes.	50
2	Veiligheid	Veiligheid van toepassing op die ambag, met verwysing na— die veilige hantering en versorging van handgereedskap; skadelike en vlabare gasse; vloeistowwe en gasse onder druk; warm en gesmelte metale; elektriese apparaat en installasies; masjienbeskerming; masjien- en pneumatiese gereedskap; slypwiele; bewegende en oorhoofse masjinerie; die gebruik van draagbare brandblussers; die uitken van tersaaklike kleurmerke en simboliese veiligheidsstekens ooreenkomstig S.A.B.S.-publikasies 0140 en 1186, onderskeidelik; veiligheidsvoorsorgmaatreëls wat op verbode gebiede van toepassing is; die veilige hantering van materiaal; en die gebruik en aanwending van beskermende klere.	50
3	Eerstehulp	Behandeling vir elektriese skok, hittesteek en beseringskok. Die verwerwing van die Sertifikaat vir Elementêre Eerstehulp.	50
4	Hand- en werkwinkel gereed- skap	Die versorging en gebruik van handgereedskap, die maak van werkstukke en onderdele deur gebruikmaking van die volgende tegnieke— boor; vyl; kap; ruim; saag; skraap; skroefdraadsny; en moerdraadsny. Die gebruik van trekkers en perse. Die keuse en gebruik van smeermiddels en snymengsels. Wiele en slypmasjiene afwerk, rond, nagaan en monteer. Identifisering, versorging en gebruik van— wringseutels; hidrouliese domkragte; bakkies; rolmatte; en hystoestelle.	200
5	Tekeninge, sketse en dia- gramme	Tekeninge en sketse maak. Lees en vertolking van sketse, insluitend simbole.	150
6	Afmerkwark	Van tekeninge en monsters af afmerk met gebruikmaking van afmerkgereedskap bv— hoekplate; senterponse; verdeelpassers; afmerktafels; gradeboë; liniale; kraspenne; winkelhake; krasblokke; en V-blokke. Die gebruik van meetinstrumente en meters.	150
7	Sny, sweissoldeer, soldeer en sweiswerk	Gebruik van gas- en boogswistoerusting (hegsweiswerk alleenlik). Gebruik van handgassnytoerusting. Sweissoldeer en soldeer van laste en onderdele.	30
8	Smering en diens van voer- tuie	Gebruik van verskillende grade en tipes olie en ghries. Dreinerings, spoel, diens en vul van enjinoliebakke, ratkaste en ashulsels.	100
9	Batterye	Onderhoud, laai en berging van batterye van dieselveoertuie.	50
10	Sluittoestelle	Identifisering van skroefdrade, pas van wasters, vasmaak van skroewe, aansit van spy, splitpenne en borgringe.	40
11	Hidroulika	Hervul en bloei van hidrouliese stelsels. Installering en onderhoud, met besondere aandag aan die reinheid van vloeistowwe en die stelsel, van— filters; pypleidings; pompe; reservoirs; seëls; en kleppe. Gebruik van pyptoebehore en koppelmateriaal. Les en vertolking van hidrouliese kringdiagramme, simbole en hidrouliese media. Foutopsporing en kontrole-, hidrouliese en bewegende toerusting. Toets van hidrouliese onderdele aan 'n masjien. Saamstel van hidrouliese pype.	350
12	Pneumatika	Installering en onderhou van— filters; oliesmeeders; drukregulators; kleppe; silinders; seëls; pypleidings; kompresors; en reservoirs. Gebruik van pyptoebehore en voegmateriaal. Foutopsporing in kontrole-, pneumatiese en bewegende toerusting. Teken en vertolking van skematiese en lyndiagramme, met inbegrip van simbole.	200
13	Vervanging van onderdele en subsamestelle	Verwydering en vervanging van— koppelaars; ratkaste; skroefstange en kruiskoppeling; vere en hangers; voor- en agterassamestelle; skokbreker- en demperstelsel enjinsamestelle en bybehore; stuurkaste en -skakelings veereenhede; remskoensamestelle; en uitlaatstelsels.	400
14	Opknapping van enjinee- hede	Uitmekaarmaal, nagaan en slytasievaststelling— in silinders; op krukas; op hoof- en grootkoppelaars; op nokasdroppe en nokvolgers; op kleppe en klepleiers; op suiers en suierpenne; en op tuimelaars en asse. Volledige aanmeakaarsit van enjins met inbegrip van opknapping en pas van— suiers; ringe en suierpenne; hoof- en grootkoppelaars; klepleiers en kleppe; en koppelstange. Herbou van klepbeddings en klepvlakke en nagaan van klepveerspanning. Stel van kleppe en vonkstelling.	350

Logboek simbool	Klas werk	Praktiese opleiding	Minimum on- derrigtyd per klas werk in uur
15	Verkoelingstelsels	Nagaan vir lekkasies en versperrings— skoonmaak van verkoelers en enjinblokke; aansit van nuwe verkoelerpype; nagaan van termostate; nasien van waterpompe; en nagaan van waaierbande vir toestand en spanning.	60
16	Nasien van subsamestelle	Herbou, nagaan vir slytasie, aanmeakaarsit en stel waar nodig, van— koppelaars; ratkaste; dryfasse; einddryfsamestelle; voorassamestelle; en agteras- samestelle. Herstel van— kruiskoppelings; kompressoreenhede; veringstelsels; kragaangedrewe eenhede; ou- tomatiese transmissies; en turboanjaers en -blasers. Herstel, herbou en vervanging van remstelselkomponente onderdele van— pneumatiese en hidrouliese stelsel.	400
17	Brandstofstelsels	Onderhoud en herstel van— induksiestelsels; brandstofpompe; en brandstofinspuitstelsels.	150
18	Padwiele	Verwydering en vervanging van— wiele; buitebande; en binnebande. Roteer van wiele, wielbalansering en wielsporing.	50
19	Slyp van kleppe	Ontkoling, inslyp van kleppe, vervanging van silinderkoppakstukke en verstelling van klepspelings.	200
20	Outoelektriese stelsels	Instandhouding en herbou van— generators; alternators; aansitters; ratwisselingkontrole; en instrumentasie. Instel en herstel van kopligte.	200
21	Laers	Verwydering en pas van laers. Pak en herpak van laers.	50
22	Foutopsporing	Toets, diagnostisering en herstel van foute, met klem op verstel en herstel van eenhede en onderdele. Insleep en voertuigherwinning.	550
23	Onderstelrame en kruiploop- vlakke	Herstel van onderstelrame en kruiploopvlakke.	100
24	Vlamdigte toerusting	Onderhoud van vlamdigte toerusting aan ondergrondse voertuie waar van toepassing.	100
25	Spesiale afdelings	Onderhoud van alle dieselaangedrewe toerusting, bogronds sowel as ondergronds gebruik.	290

Logboek simbool	Klas werk	Praktiese opleiding	Minimum on- derrigtyd per klas werk in uur
		2. ELEKTRISIËN (6)	
1	Induksie	Toepassing van die Myne se Standaardveiligheidskode en prosedures wat op die ambag betrekking het, met besondere aandag aan— mynstandaarde en -prosedures; myntugkode, veiligheidskode en verliesbestryding; die Wet op Mannekragopleiding, 1981, en die betrokke leer- voorwaardes.	50
2	Veiligheid	Veiligheid van toepassing op die ambag, met verwysing na— die veilige hantering en versorging van handgereedskap; skadelike en vlambare gasse; vloeistowwe en gasse onder druk; warm en gesmelte metale; elektriese apparaat en installasies; masjienbeskerming; masjien- en pneumatiese gereedskap; slypwiele; bewegende en oorhoofse masjinerie; die gebruik van draagbare brandblussers; die uitken van tersaaklike kleurmerke en simboliese veiligheidstekens ooreenkomstig S.A.B.S. -publikasies 0140 en 1186, onderskeidelik; veiligheidsvoorsorgmaatreëls wat op verbode gebiede van toe- passing is; die veilige hantering van materiaal, en die gebruik en aanwending van beskermende klere.	50
3	Eerstehulp	Behandeling vir elektriese skok, hittesteek en beseringskok. Die verwerwing van die Sertifikaat vir Elementêre Eerstehulp.	50
4	Handgereedskap en mas- jinerie	Die versorging en gebruik van handgereedskap en werkswinkelmasjiene en draagbare boormasjiene met inbegrip van die tegnieke van— vyl; saag; boor, en moederdraadsny. Wiele van tafel- en hoekslypmasjiene afwerk, rand, nasien en monteer.	100
5	Soldeer-, sweis- en sweissol- deerwerk	Hard- en sagsoldeer. Elektriese-boogsweldwerk en gassweis- (hegsweisselwerk alleenlik) en sweissoldeerwerk.	30

Logboek simbool	Klas werk	Praktiese opleiding	Minimum on- derrigtyd per klas werk in uur
6	Bane en tekeninge.....	Vryhandtekeninge en sketse maak van elektriese en elektroniese bande en meganiese onderdele. Skematiese en bedradingsdiagramme en ingenieurstekeninge van algemene konstruksiewerk gebruik en begryp.	100
7	Regulasies.....	Praktiese toepassing van die regulasies met betrekking tot— die Wet op Myne en Bedrywe; en die gebruikskode vir die bedrading van persele (S.A.B.S. 0142).	80
8	Meet- en toetsinstrumente	Die aanwending en gebruik van elektriese en elektroniese toets- en meetinstrumente, soos— multimeters; meggers; ammeter; impulstoetsers/stuwinggenerators, en ossilloskope.	160
9	Energiemeters	Bedrading en lees van energiemeters vir enkelfase, driefase en uitbreiding van reeks.	50
10	Geleiers en kables.....	Die versorging, hantering en identifisering van verskillende soorte geleiers, kables en sleepkables met inbegrip van die toets, afhegting, las, soretting en rotering daarvan.	200
11	Bedrading, monteer en installeer van skakeltuig	Bedrading, installing en onderhoud van skakeltuig en kontroletoerusting op enkel- en multifaseverdeelborde, sekvensie- en tru-aansitters en alarmstelsels. Vlamdigting van panele en skakeltuig.	600
12	Verbinding van motors aan aansitters	Die verbinding van die volgende aan beheerpaneel— kooimotors; glyringmotors; G.S.-motors; enkelfasemotors, en motor-generatorstelle.	200
13	W.S.- en G.S.-masjiënonderhoud	Herbou, onderhou en toets van W.S.- en G.S.-masjiene met inbegrip van elektroniese stroombane met nadruk op verwydering van laers, herstel van glyringe en borsels asook die herbou van motors en kommutators.	600
14	Hooftoevoerverspreiding	Bedrading en toetsing van enkelfase-, driefase- en G.S.-kragtoevoere en verdeelstelsels met inbegrip van ladingsbalansering, aardlekbeveiligingseenhede, aardkontinuiteit van stelsels en oorladingbeveiliging.	600
15	Transformators	Verbinding, toets en onderhoud van enkelfase- en driefasetransformators met inbegrip van instrumenttransformators; beligtingtransformators; en krag- (stroom-) transformators.	150
16	Geboue en huishoudelike toestelle	Die installing, onderhoud en herstel van elektriese toebehore in geboue, en van huishoudelike toestelle, met inbegrip van bedradingsinstallasietoets, stowe, warmwatertoestelle en telefoonstelsels.	200
17	H.S.-netwerkstelsel.....	Die opspoor, identifisering en wisseling van hoogspanningskakeluitrusting, met inbegrip van die vertolking van uitklinkvlaggies aan oliekringbrekers, verstelling van beveiligingseenhede en oorbelading en konstruksie van hoëspanningslyne en -kables.	130
18	Batterie en loko-onderhoud	Die onderhoud van batterie en loko's met inbegrip van die koppel van batterie, laai van batterie en die toets van batterie en loko's.	200
19	Elektroniese uitrusting	Die onderhoud en herstel van elektroniese uitrusting met inbegrip van: bediening van toetsbank; die toets van beheeruitrusting en batterylaaiers en toets van stroombane met gebruikmaking van ossilloskope.	150
20	Outo-elektriese herstelwerk	Die herstel en onderhoud van elektriese stelsels van mynvoertuie.	150
21	Spesiale afdelings	Elektriese herstelwerk in lampkamers. Elektriese herstelwerk aan: klipbreker- meule-uitrusting; verkoelingstoerusting; mobiele uitrusting; en mynhysers.	470

Logboek simbool	Klas werk	Praktiese opleiding	Minimum on- derrigtyd per klas werk in uur
1	Induksie	3. GROFSMID (1) Toepassing van die Myne se Standaardveiligheidskode en prosedures wat op die ambag betrekking het, met besondere aandag aan— mynstandaarde en -prosedures; myntugkode; veiligheidskode en verliesbestryding; die Wet op Mannekragopleiding, 1981, en die betrokke leëvoorwaardes.	50

Logboek simbool	Klas werk	Praktiese opleiding	Minimum on- derrigtyd per klas werk in uur
2	Veiligheid	Veiligheid van toepassing op die ambag, met verwysing na— die veilige hantering en versorging van handgereedskap; skadelike en vlambare gasse; vloeistowwe en gasse onder druk; warm en gesmelte metale; elektriese apparaat en installasies; masjienbeskerming; masjien- en pneumatiese gereedskap; slypwiele; bewegende en oorhoofse masjinerie; die gebruik van draagbare brandblussers; die uitken van tersaaklike kleurmerke en simboliese veiligheidstekens ooreenkomstig S.A.B.S.-publikasies 0140 en 1186, onderskeidelik; veiligheidsvoorsorgmaatreëls wat op verbode gebiede van toepassing is; die veilige hantering van materiaal; en die gebruik en aanwending van beskermende klere.	50
3	Eerstehulp	Behandeling vir elektriese skok, hittesteek en beseringskok. Die verwerwing van die Sertifikaat vir Elementêre Eerstehulp.	50
4	Hand- en werkwinkel ge- reedskap	Die versorging en gebruik van handgereedskap, die maak van werkstukke en onderdele deur gebruikmaking van die volgende tegnieke— boor; vyl, en saag. Die maak van onderdele met gebruikmaking van— vormysters; setmate; messe; voorhamers en saals. Skerpmaak van snygereedskap. Die opknop, ronding, nagaan en montering van slypmasjienwiele. Die gebruik van pneumatiese gereedskap.	270
5	Afmerkwêrk	Van tekeninge en monsters af afmerk, met gebruikmaking van afmerkgereedskap, bv.— senterponse; verdeelpassers; gradeboë; liniale; kraspenne, en krasbloske.	50
6	Tekeninge en sketse	Tekeninge en sketse maak. Tekeninge, met inbegrip van simbole, lees en begryp.	100
7	Oksi-asetileen toerusting	Die bediening en gebruik van oksii-asetileen-snytoerusting en snywerk volgens reguit lyne, strale en profiele.	100
8	Materiaal hoeveelhede	Die berekening van die materiaal- hoeveelhede en die spelings vereis vir smeewerk. Materiaalbenodigdhede van werktekeninge beraam.	100
9	Vure en oonde	Die voorbereiding, aansteek en gebruik van opeherd-, gas-en olie-ontbrandingsoonde.	100
10	Saalsmewerk	Met 'n voorhamer slaan en saalsmee.	350
11	Smeewerk	Hand- en snygereedskap smee en komponente maak, met gebruikmaking van 'n aambeeld.	700
12	Smeelaswerk	Voorbereiding van sweiswerk. Die smeelassing van komponente insluitend die voorbereiding daarvoor en speling toe te laat vir die korrekte hoeveelheid materiaal.	350
13	Kraghamers	Die bediening van 'n kraghamer, bv.— hantering; vasklamp; draai; vashou; manipuleer; smeestukke onder die hamer hanteer; smeestukke stempel; die sny; pons; wals; buig; stui; en saalsmee van materiale. Die maak van smeestukke met gebruikmaking van 'n kraghamer.	1 200
14	Hittebehandeling	Beheer van temperature en kleure in hittebehandelingsprosesse, bv.— olieverharding; dopverharding; en lug- en waterverharding. Metale uitgloe en normaliseer. Gereedskap en komponente verhard en temper.	360
15	Inkrimp	Inkrimp van bande en soortgelyke werk met besondere verwysing na spelings en weerstandsvermoë.	50
16	Grofsmidwerkswinkelonder- vinding	Bykomstige werk met die maak van toerusting in grofsmidwerkswinkel, bv.— koerverte; spoorwegwissels; ponsse; en beitels.	440

Logboek simbool	Klas werk	Praktiese opleiding	Minimum on- derrigtyd per klas werk in uur
		4. INSTRUMENTWERKTUIGKUNDIGE (INDUSTRIEEL) (9)	
1	Induksie	Toepassing van die Myne se Standaardveiligheidskode en prosedures wat op die ambag betrekking het, met besondere aandag aan— mynstandaarde en -prosedures; myntugkode; veiligheidskode, en verliesbestryding; die Wet op Mannekragopleiding, 1981, en die betrokke leervooraardes.	50
2	Veiligheid	Veiligheid van toepassing op die ambag, met verwysing na— die veilige hantering en versoring van handgereedskap; skadelike en vlambare gasse; vloeistowwe en gasse onder druk; warm en gesmelte metale; elektriese apparaat en installasies; masjienbeskerming; masjien- en pneumatiese gereedskap; slypwiele; bewegende en oorhoofse masjinerie; die gebruik van draagbare brandblussers; die uitken van tersaaklike kleurmerke en simboliese veiligheidstekens ooreenkomstig S.A.B.S.-publikasies 0140 en 1186, onderskeidelik; veiligheidsvoorsorgmaatreëls wat op verbode gebiede van toepassing is; die veilige hantering van materiaal; en die gebruik en aanwending van beskermende klere.	50
3	Eerstehulp	Behandeling vir elektriese skok, hittesteek en beseringskok. Die verwerwing van die Sertifikaat vir Elementêre Eerstehulp.	50
4	Hand- en werkwinkel gereed- skap	Die versorging en gebruik van handgereedskap, die maak van werkstukke en onderdele deur gebruikmaking van die volgende tegnieke— boor; vyl; ruim; saag; skroefdraadsny; en moerdraadsny. Die gebruik van snymengsels. Die skerpmaak van snygereedskap. Slypwiele aan slypmasjien opknop, rig en nagaan. Die buig van koper- en vlekvrystaalpype tot en met 'n 16-mm-deursnee.	200
5	Materiale	Die identifisering en gebruikmaak van materiale wat in die ambag gebruik word.	50
6	Tekeninge, sketse en dia- gramme	Tekeninge en sketse maak en lees van instrumentbeheerlusse, meganiese onderdele en elektroniese bane, met inbegrip van simbole wat gebruik word.	200
7	Afmerkwark	Van tekeninge en monsters afmerk deur gebruikmaking van afmerkgereedskap bv.— senterponse; prikponse; verdeelpassers; liniale; kraspenne; gradeboë; en winkel- hake.	50
8	Die maak van termokoppels	Die maak van termokoppels deur gebruikmaking van gassweisuitrusting.	50
9	Soldeer-, en verwydering van komponente en soldeersel	Die hard- en sagsoldeer van ysterhoudende en nie-ysterhoudende metale en die voorbereiding van onderdele daarvoor. Die gebruik van verskillende grade en soorte soldeersel en soldeerboute, met inbegrip van laespanning- en termostaatbeheerde soorte. Soldeerlasse maak sonder om delikate komponente te beskadig. Soldeertegnieke deur gebruikmaking van toepaslike gereedskap.	200
10	Meet instrumente	Die aanwending van meetinstrumente met besondere aandag aan— ammeters; meetbrûe; multimeters; ohmmeters; ossilloskope; voltmeters; pulsgenerators; frekwensietellers; en millivoltbronne. Lesings interpreteer en evalueer.	300
11	Kragtoevoere	Die aanwending, montering en toetsing van verskillende instrumentkragtoevoere.	50
12	Elektriese, elektroniese en drukluugwerk	Die innemkaarsit en toets van en foutspeuring by elektriese, elektroniese en pneumatiese modules vir instrumentasiebeheer.	400
13	Sensors en seintoestelle	Die toetsing, herstel, vervanging en kalibrering van alle soorte sensors en seintoestelle wat gebruik word vir— spoed; druk; temperatuur; posisie; vlak; massa; en vloeï.	250
14	Onderhoud van instrumente	Uitmekaarhaal; herstel; innemkaarsit; rig; verstelling, en kalibrering van registreer- en beheerinstrumente.	1 050
15	Outomatiesebeheerstelsels....	Die foutspeuring by en herstel en parameterinstelling van beheerstelsels soos by prosesbeheer van toepassing.	750
16	Spesiale afdelings	Instandhoudinge en nagaan van instrumentasie van— klipbreker-/meule-aanlegte; toevoerstelsels; mobiele toerusting; hystoestelle, en verkoelingsaanlegte.	620

Logboek simbool	Klas werk	Praktiese opleiding	Minimum on- derrigtyd per klas werk in uur
		5. LOODGIETER (16)	
1	Induksie	Toepassing van die Myne se Standaardveiligheidskode en prosedures wat op die ambag betrekking het, met besondere aandag aan— mynstandaarde en -prosedures; myntugkode; veiligheidskode en verliesbestryding; die Wet op Mannekragopleiding, 1981, en die betrokke leervooraardes.	50

Logboek simbool	Klas werk	Praktiese opleiding	Minimum on- derrigtyd per klas werk in uur
2	Veiligheid	Veiligheid van toepassing op die ambag, met verwysing na— die veilige hantering en versorging van handgereedskap; skadelike en vlambare gasse; vloeistowwe en gasse onder druk; warm en gesmelte metale; elektriese apparaat en installasies; masjienbeskerming; masjien- en pneumatiese gereedskap; slypwiele; bewegende en oorhoofse masjinerie; die gebruik van draagbare brandblussers; die uitken van tersaaklike kleurmerke en simboliese veiligheidstekens ooreenkomstig S.A.B.S.-publikasies 0140 en 1186, onderskeidelik; veiligheidsvoorsorgmaatreëls wat op verbode gebiede van toepassing is; die veilige hantering van materiaal, en die gebruik en aanwending van beskermende klere.	50
3	Eerstehulp	Behandeling vir elektriese skok, hittesteek en beseringskok. Die verwerwing van die Sertifikaat vir Elementêre Eerstehulp.	50
4	Materiale	Die gebruik van— pyptoebehore; verskeie soorte wasters en pakkings, en verskeie soorte staal wat in die ambag gebruik word.	100
5	Hand- en gereedskap werkwinkel	Die versorging en gebruik van gereedskap. Die maak van werkstukke en onderdele deur middel van die volgende tegnieke— boor; vyl; ruim; saag; skroefdraadsny; moerdraadsny, en draadsny. Gereedskap skerpmmaak. Die gebruik van snymengsels. Die toets, monteer, rig en opknop van slypwiele.	400
6	Planne, tekeninge en sketse	Die maak van tekeninge en sketse. Die lees van planne en tekeninge, met inbegrip van simbole.	180
7	Regulasies	Die praktiese toepassing van munisipale regulasies. Die installering, instelling en instandhouding van drukreël en ontlaskleppe.	200
8	Af- en uitmerkwerk en ont- wikkeling	Die af- en uitmerking van tekeninge af deur gebruikmaking van— senterponse; prikponse; verdeelpassers; liniale; kraspenne; gradeboë, en winkel-hake. Die ontwikkeling van reëlmatige en nie-reëlmatige vorms, deur gebruik van— parallele lyne; straalhoek, en triangulasiemetodes. Plaatmetaal- en klinkwerk.	650
9	Bediening van masjiene	Die bediening van— handgedrewe buig- en voumasjiene; skêre; guillotine; en walsmasjiene.	300
10	Soldeer- en loodwerk	Die soldeer en voorbereiding van onderdele. Die vertinning en die gebruik van smeltmiddels. Loodlaswerk. Die gebruik van gastoerusting vir verhitting, sweissoldeerwerk en hegswaiswerk.	140
11	Pypwerk	Waterpype— sny; draadsny; las; en lê. Die pas en bevestiging van— uitsitvoë; koperpype; afval- en uitlaatpype; afvalsluise; ontlugpype; afsluitkrane en kleppe; gietysterpypwerk, en rioolpype. Die sny en aansit van geute en voegskorte. Die las en lê van verskeie rioolpype. Die las en lê van loodpype.	1 500
12	Installasies	Installering van— warmwaterstelsels; dreineringsstelsels; kloset- en urinaalstelle; spoelbakke; rioolsluise; septiese tenks; mangate, en meters.	500
13	Seël- en kleefmiddels	Die aanwending van seël- en kleefmiddels by laswerk.	50
14	Instandhouding	Die regstel van foute en verstoppings in pype en riole.	150

Logboek simbool	Klas werk	Praktiese opleiding	Minimum on- derrigtyd per klas werk in uur
		6. MESSELAAR (2)	
1	Induksie	Toepassing van die Myne se Standaardveiligheidskode en prosedures wat op die ambag betrekking het, met besondere aandag aan— mynstandaarde en -prosedures; myntugkode; veiligheidskode en verliesbestryding; die Wet op Mannekragopleiding, 1981, en die betrokke leervooraardes.	50
2	Veiligheid	Veiligheid van toepassing op die ambag, met verwysing na— die veilige hantering en versorging van handgereedskap; skadelike en vlambare gasse; vloeistowwe en gasse onder druk; warm en gesmelte metale; elektriese apparaat en installasies; masjienbeskerming; masjien- en pneumatiese gereedskap; slypwiele; bewegende en oorhoofse masjinerie; die gebruik van draagbare brandblussers; die uitken van tersaaklike kleurmerke en simboliese veiligheidstekens ooreenkomstig S.A.B.S.-publikasies 0140 en 1186, onderskeidelik; veiligheidsvoorsorgmaatreëls wat op verbode gebiede van toepassing is; die veilige hantering van materiaal, en die gebruik en aanwending van beskermende klere.	50
3	Eerstehulp	Behandeling vir elektriese skok, hittesteek en beseringskok. Die verwerwing van die Sertifikaat vir Elementêre Eerstehulp.	50
4	Gereedskap en uitrusting	Die versorging en gebruik van gereedskap, bv.— troffels; waterpasse; en verskillende hamers. Die oprigting, gebruik en nasien van basiese en komplekse steiers.	80
5	Materiaal	Die opstapeling en berging van alle messelaarsmateriaal. Die uitkenning van die verskillende soorte sand bv.— putsand; riviersand; en pleistersand.	80
6	Uitleg en terreinpraktyk	Die vertolking van skaaltekeninge en besonderhede. Die uitleg van— 'n reghoek; 'n vierkant; en fondamente, met gebruikmaking van boubedryfgereedskap. Die beskerming van werk in alle konstruksiestadiums, met inbegrip van die skoonmaak van werkkoppervlaktes. Stene, blokke, en daghaborde in posisie plaas. Beplanning van die uitleg van terreine.	790
7	Die lê van stene en blokke	Die kap van stene, soos rofkap en skoonkap. Die bou van halfsteenmure in strykverband. Die bou van— soliede steenmure; hol en soliede blokmure; hol mure; fondasiesteenwerk; sykant- en staansteenlaag; vrystaande steenpilare, muurpilare, en bene. Die lê van 'n voglaag. Die inbou van venster- en deurkosyne. Die bekleding van vensterbanke met stene en teëls. Die regplaas van voorafvervaardigde betonlateie en vensterbanke. Voegwerk en voegstrykwerk. Die kap van intandingsgate en gleuwe. Karbeelwerk. Balkvulling. Hantering van versterkte steenmesselwerk.	1 760
8	Dreinerings	Die bou van mangate met inbegrip van die vernouing van mangate deur middel van karbele en betonblaie.	390
9	Vuurherde, lugkanale en skoorstene	Die bou van skoorsteenborste en herdskeermure. Die inmessel van lugkanaalvoerings en 'n voglaag. Die uitskraap van voë vir voegskorte. Afeindiging van lugkanaalvoerings en aanbring van skoorsteenpotte. Die inmessel van lugkanaalblokke vir gasvure.	390
10	Boë en mure met fineerklip bou	Die aanbring van sentrerings vir boë. Die bou van boë soos— platboë; halfsirkelboë; segmentboë met gebruikmaking van pleisterstene en sierstene. Fineerklipmure inbou.	390
11	Pleisterwerk	Die pleister van 'n eenlaagsteenmuur. Die pleister van venster- en deurkosyne. Betonvloere afvlak.	110
12	Die teël van mure en vloere...	Die hartlyne bepaal. Die lê van steengroef- en leiteëls met inbegrip van voegwerk. Die lê van lapbestrating. Die bepaling van vlakke. Die aanbring van muurteëls met inbegrip van die sny daarvan.	110

Logboek simbool	Klas werk	Praktiese opleiding	Minimum on- derrigtyd per klas werk in uur
7. MODELMAKER (13)			
1	Induksie	Toepassing van die Myne se Standaardveiligheidskode en prosedure wat op die ambag betrekking het, met besondere aandag aan— mynstandaarde en -prosedures; myntugkode; veiligheidskode en verliesbestryding; die Wet op Mannekragopleiding, 1981, en die betrokke leervooraardes.	50
2	Veiligheid	Veiligheid van toepassing op die ambag, met verwysing na— die veilige hantering en versorging van handgereedskap; skadelike en vlambare gasse; vloeistowwe en gasse onder druk; warm en gesmelte metale; elektriese apparaat en installasies; masjienbeskerming; masjien- en pneumatiese gereedskap; slypwiele; bewegende en oorhoofse masjinerie; die gebruik van draagbare brandblussers; die uitken van tersaaklike kleurmerke en simboliese veiligheidstekens ooreenkomstig S.A.B.S.-publikasies 0140 en 1186, onderskeidelik; veiligheidsvoorsorgmaatreëls wat op verbode gebiede van toepassing is; die veilige hantering van materiaal, en die gebruik en aanwending van beskermende klere.	50
3	Eerste hulp	Behandeling vir elektriese skok, hittesteek en beseringskok. Die verwerwing van die Sertifikaat vir Elementêre Eerstehulp.	50
4	Hand- en werkwinkel gereedskap	Versorging en gebruik van— handgereedskap; draagbare elektriese gereedskap, en toerusting. Die maak van werkstukke en onderdele van verskillende soorte timmerhout, hardhout, laaghout en harse, deur middel van— boorwerk; vylwerk; riemwerk; saagwerk; skraapwerk; beitelwerk; rasperwerk; skaafwerk; afskuurwerk; skroef- en moerdraadsny. Die skerpmaak van— beitels; bore en skrapers.	250
5	Houtwerkmasjiene	Die vervaardiging en instandhouding van modelle en toebehore deur die bediening en die verstelling van— bandsae; banktolle; sirkelsae; skaafmasjiene; skuurskywe en houtwerkdraibanke.	250
6	Uitlê en afmerk- en sketswerk	Van tekeninge af uitlê en afmerk deur gebruikmaking van— senterponse; verdeelpassers; liniale; kraspenne; en winkelhake. Vryhandtekening en -sketse maak. Die lees en begrip van tekeninge.	500
7	Aanwending en uitkenning van houtsoorte en harse	Identifisering van draadrigting. Uitkenning en gebruik van verskillende soorte harde- en sagtehout en harse.	50
8	Lasse	Die maak van— stuiklasse; swaelstertlasse; en oorslaglasse, by houtmodelle, deur middel van— vastap; vaslym; vasspyker, en vasskroef.	200
9	Modelle en kernbakke	Die vervaardiging, instandhouding, versorging, en herstel van modelle en kernbakke deur middel van— spitstukke; kernprente; uitligbande; loodskutplate; plaatmodelle; skeletwerk; vorm- bordwerk; kasmodelle, en segmentwerk. Die monteer en aanpas van modelle. Inlooppigietmetodes.	2 570
10	Afwerking	Afwerking deur gebruikmaking van— Skuurpapier wasbehandeling; leerbinneronding; en verf.	100
11	Berekenings	Berekenings maak en toelaat vir: inkrimping; kromtrekking; masjienering, en voorkoming van krake in gietstukke.	50
12	Gieteryondervinding	Saam met gietvormmakers werk in verband met die vloei van metaal in inlopers; sty- gers; en die ontlugting van gietvorms en kërns.	

Logboek simbool	Klas werk	Praktiese opleiding	Minimum on- derrigtyd per klas werk in uur
8. MOTORWERKTUIGKUNDIGE (10)			
1	Induksie	Toepassing van die Myne se Standaardveiligheidskode en prosedures wat op die ambag betrekking het, met besondere aandag aan— mynstandaarde en -prosedures; myntugkode; veiligheidskode en verliesbestryding; die Wet op Mannekragopleiding, 1981, en die betrokke leervooraardes.	50

Logboek simbool	Klas werk	Praktiese opleiding	Minimum on- derrigtyd per klas werk in uur
2	Veiligheid	Veiligheid van toepassing op die ambag, met verwysing na— die veilige hantering en versorging van handgereedskap; skadelike en vlambare gasse; vloeistowwe en gasse onder druk; warm en gesmelte metale; elektriese apparaat en installasies; masjienbeskerming; masjien- en pneumatiese gereedskap; slypwiele; bewegende en oorhoofse masjienerie; die gebruik van draagbare brandblussers; die uitken van tersaaklike kleurmerke en simboliese veiligheidstekens, ooreenkomstig S.A.B.S.-publikasies 0140 en 1186, onderskeidelik; veiligheidsvoorsorgmaatreëls wat op verbode gebiede van toepassing is; die veilige hantering van materiaal; en die gebruik en aanwending van beskermende klere.	50
3	Eerstehulp	Behandeling vir elektriese skok, hittesteek en beseringskok. Die verwerwing van die Sertifikaat vir Elementêre Eerstehulp.	50
4	Hand- en gereedskap werkwinkel	Die versorging en gebruik van handgereedskap. Die maak van werkstukke en onderdele deur gebruikmaking van die tegnieke van— kap; boor; vyl; ruim; saag; skraap; skroefdraadsny, en moerdraadsny. Die keuse van gebruik van smeermiddels en snymengsels. Die gebruik van hidrouliese trekkers en perse. Die aanbring van sluittoestelle. Slypwiele aan slypmasjiene opknop, nagaan, rig en monteer.	200
5	Tekeninge, sketse en dia- gramme	Die maak van tekeninge en sketse. Die lees en begrip van tekeninge met inbegrip van simbole.	150
6	Afmerk werk	Van tekeninge en monsters af afmerk, met gebruikmaking van afmerkgereedskap bv.— senterponse; verdeelpassers; gradeboë; liniale; kraspenne; winkelhake, en kras- blokke.	150
7	Materiale	Die uitken en gebruik van materiale.	50
8	Sny, sweissoldeer, soldeer en sweiswerk	Gebruik van gas- en boogswaisuitrusting (hegsweis alleenlik). Gebruik van handgassnytoerusting. Die sweissoldering en soldering van lasse en komponente.	30
9	Enjin instelling	Loop- en instelverstellings bv.— vergasser; ontsteking; vonkproppe; punte; tydstelling; en klepstotervryruimte. Die verwydering en vervanging van komponente.	220
10	Herstel, instandhouding en foutspeuring	Die bepaling van slytasie aan komponente soos bv.— laers; koppelstange; nok- en krukas; silinders; suierpenne; stootstange; kle- pleiers; vere; suiers, en tydreëlratte. Foute opspoor en identifiseer. Enjins ontkool en kleppe slyp. Die onderhoud en opknapping van verkoelingstelsels. Die vervanging van suiers, ringe en laers. Die verwydering en vervanging van enjinbybehore. Die aanwending van onderhoudsprogramme en smeermiddels.	900
11	Batterye	Die onderhoud, laai en berging van batterye vir motorvoertuie.	50
12	Elektriese stelsels	Die onderhoud en regstelling van elektriese toerusting, bv.— alternators; spoele; uitskakelaars; verdelers; generators; reëlaars; aansitters, en be- dradingskringe. Die toets van kringe en samestelling deur middel van stelselmatige foutspeuring en die gebruik van geskikte toetstoerusting. Die vervanging van samestelling en defekte komponente.	350
13	Transmissiestelsels	Foutspeuring by en onderhoud en herstel van transmissiestelsels.	740
14	Veringstelsels	Die instandhouding en verstelling van— kronkelstelsels; blad- en rubberveringstelsels; skokbrekers; stuurstelsels, en bande. Diagnosering en herstel deur die toepassing van differensiasie tussen slytasie wat ver- vanging vereis en slytasie wat regstelling vereis. Die verwydering en vervanging van defekte of verslete dele van veringstelsels en regstelling vir korrekte werkende toestand.	360
15	Onderstelle	Die instandhouding en vervanging van— onderstelrame; uitlaatstelsels; meganiese remstelsels; en onderstelkomponente. Onderskei tussen toestande wat gespesifiseerde herstel vereis en dié wat gespesiali- seerde herstel vereis en dié wat vervanging vereis.	135
16	Hidrouliese stelsels	Die lees en begryp van hidrouliese kringdiagramme, simbole en hidroulike-media. Die instandhouding en verstelling van— hidrouliese pompe; lasse; leidings; hoof- en slaafsilinders; pype; moerkoppings, en kleppe. Die instandhouding van hidrouliese samestelling. Die verwydering en vervanging van hidrouliese komponente, met besondere aandag aan die reinheid van komponente en media. Die opsporing van foute deur middel van sistematiese foutspeuring en verstelling. Die vervanging van verslete of defekte komponente en onderdele. Die hervul en bloei van hidrouliese stelsels.	200
17	Pneumatiiese stelsels	Die herstel en vervanging van defekte samestelling met spesiale aandag aan die reinheid van komponente.	180
18	Spesiale afdelings	Die onderhoud van alle petrolaangedrewe toerusting wat by myne gebruik word.	455

Logboek simbool	Klas werk	Praktiese opleiding	Minimum on- derrigtyd per klas werk in uur
		9. PASSER (MET INBEGRIIP VAN MASJINERING) (7)	
1	Induksie	Toepassing van die Myne se Standaardveiligheidskode en prosedures wat op die ambag betrekking het, met besondere aandag aan— mynstandaarde en -prosedures; myntugkode; veiligheidskode en verliesbestryding; die Wet op Mannekragopleiding, 1981, en die betrokke leervooraardes.	50
2	Veiligheid	Veiligheid van toepassing op die ambag, met verwysing na— die veilige hantering en versorging van handgereedskap; skadelike en vlambare gasse; vloeistowwe en gasse onder druk; warm en gesmelte metale; elektriese apparaat en installasies; masjienbeskerming; masjien- en pneumatiese gereedskap; slypwiele; bewegende en oorhoofse masjinerie; die gebruik van draagbare brandblussers; die uitken van tersaaklike kleurmerke en simboliese veiligheidstekens ooreenkomstig S.A.B.S.-publikasies 0140 en 1186, onderskeidelik; veiligheidsvoorsorgmaatreëls wat op verbode gebiede van toepassing is; die veilige hantering van materiaal, en die gebruik en aanwending van beskermende klere.	50
3	Eerstehulp	Behandeling vir elektriese skok, hittesteek en beseringskok. Die verwerwing van die Sertifikaat vir Elementêre Eerstehulp.	50
4	Hand- en werkwinkel gereed- skap	Die versorging en gebruik van gereedskap. Die maak van werkstukke en onderdele deur gebruikmaking van die tegnieke— boor; vyl; kap; ruim; saag; skraap; skroefdraadsny, en moerdraadsny. Snygereedskap skerpmak. Die gebruik van trekkers en perse. Die keuse en gebruik van smeermiddels en snymengsels. Die wiele van slypmasjiene afwerk, rond, nagaan en monteer.	300
5	Sny, sweissoldeer, soldeer en sweiswerk	Die gebruik van gassweis- en boogswaisuitrusting (hegsweiswerk alleenlik). Die gebruik van handgassnyuitrusting. Die sweissoldeer en soldeer van laste en onderdele.	30
6	Tekeninge en sketse	Tekeninge en sketse maak. Tekeninge met inbegrip van simbole, lees en begryp.	150
7	Afmerkwark	Van tekeninge en monsters af afmerk, met gebruikmaking van afmerkgereedskap bv.— hoekplate; senterponse; verdeelpassers; afmerktafels; gradeboë; liniale; kraspenne; winkelhake; krasblokke, en V-blokke. Die gebruik van meetinstrumente en meters.	150
8	Materiale	Die identifisering en gebruik van materiale.	20
9	Koppelings	Die montering, rigting, foutspeuring en onderhoud van verskillende soorte koppeling, bv.— buigsame, soliede en selfrigkoppelings.	150
10	Die pasmaak van spy en sluittoestelle	Die pasmaak van spy en komponente, tappenne, sluitplate, sluitmoere, parallel- en neuspype, splitpenne, borgringe en ander sluittoestelle. Die pas van busse, penne en asse.	150
11	Aandrywings	Die inspeksie, foutdiagnosering, herstel en onderhoud van— verskillende soorte bandaandrywings; kettingaandrywings; rataandrywings, en hidrouliese aandrywings.	150
12	Laers en busse	Die skraap, instellering en pas van laers en busse. Die rig van laers en kussingblokke. Die sny van oliegroewe en die boor van oliegate. Die identifisering van laers en laerfoutspeuring.	150
13	Die installering van masjiene- rie	Die instellering, waterpas maak en in lyn bring van— ratkaste; masjiene; motore; en masjienonderdele, volgens tekenspesifikasies. Die gebruik van hysuitrusting.	300
14	Samestelling	Die montering van— koeël- en rollaers; koppelings; ratte; hulse, en wiele Die onderhoud en rig van— ratte; ratkaste; motore, en asse, met inbegrip van die gebruik van pasboute, seëls en pakstukke. Die installering en onderhoud, in ooreenstemming met tekeninge of spesifikasies, van— asse; kruiskoppelings; spille, en assamestelle.	600
15	Smering	Foutdiagnosering by en onderhoud van smeerstelsels, met gebruikmaking van verskillende metodes— spat; val-, en druksmering. Die aanwending en berging van verskillende soorte smeermiddels.	100
16	Remme en koppelaars	Foutdiagnosering by en onderhoud van die rem, koppelaar en koppelaarsamestelling en versiening en stel van remme en koppelaars.	100

Logboek simbool	Klas werk	Praktiese opleiding	Minimum on- derrigtyd per klas werk in uur
17	Hidroulika	Die hervulling en bloei van hidrouliese stelsels. Die installering en onderhoud, met besondere klem op die reinheid van vloeistof en stelsel van— filters; pypleidings; pompe; reservoors; seëls, en kleppe. Die gebruik van pyptoebehore en voeglas materiaal. Die lees en vertolking van hidrouliese baandiagramme, simbole en hidrouliese media. Foutspeuring by beheer-, hidrouliese en bewegingsuitrusting. Die toets van hidrouliese onderdele van 'n masjien. Die opbou van hidrouliese slange (pypstelsels).	200
18	Pneumatika	Installering en onderhoud van— filters; oliesmeeders; drukreëlaars; kleppe; silinders; seëls; pypleidings; kompressors, en reservoors. Die gebruik van pyptoebehore en voeglas materiaal. Foutspeuring by beheer-, pneumatiese en bewegingsuitrusting. Die teken en begryp van skematiese en lyndiagramme, met inbegrip van simbole.	200
19	Sterkarmskaafmasjien	Die onderhoud van die sterkarmskaafmasjien. Die gebruik van gereedskap en masjientegnieke by die afronding van werkstukke.	400
20	Pypwerk	Die opbou en onderhoud van pypstelsels. Die opknap en toets van kleppe.	100
21	Pompe	Die herstel van enkel- en meertrap sentrifugalepompe.	200
22	Dieselenjins	Die onderhoud van brandstof-, verkoeling-, smeer-, trek-, rem- en vlamdigtings stelsels van dieselaangedrewe masjiene.	300
23	Spesiale afdelings	Die onderhoud van klipbreker-/meule-aanleg, vervoerbandstelsels, mobiele toerusting, mynhyser en verkoelingstoerusting. Die installering van vlamdigte toerusting.	420

Logboek simbool	Klas werk	Praktiese opleiding	Minimum on- derrigtyd per klas werk in uur
		10. PASSER EN DRAAIER (8)	
1	Induksie	Toepassing van die Myne se Standaardveiligheidskode en prosedures wat op die ambag betrekking het, met besondere aandag aan— mynstandaarde en -prosedures; myntugkode; veiligheidskode, en verliesbetryding; die Wet op Mannekragopleiding, 1981, en die betrokke leervooraardes.	50
2	Veiligheid	Veiligheid van toepassing op die ambag, met verwysing na— die veilige hantering en versorging van handgereedskap; skadelike en vlambare gasse; vloeistowwe en gasse onder druk; warm en gesmelte metale; elektriese apparaat en installasies; masjienbeskerming; masjien- en pneumatiese gereedskap; slypwiele; bewegende en oorhoofse masjinerie; die gebruik van draagbare brandblussers; die uitken van tersaaklike kleurmerke en simboliese veiligheidstekens ooreenkomstig S.A.B.S.-publikasies 0140 en 1186, onderskeidelik; veiligheidsvoorsorgmaatreëls wat op verbode gebiede van toepassing is; die veilige hantering van materiaal, en die gebruik en aanwending van beskermende klere.	50
3	Eerstehulp	Behandeling vir elektriese skok; hittesteek en beseringskok. Die verwerwing van die Sertifikaat vir Elementêre Eerstehulp.	50
4	Hand- en werkwinkel gereedskap	Die versorging en gebruik van gereedskap. Die maak van werkstukke en onderdele, met gebruikmaking van die tegnieke van— boor; vyl; kap; ruim; saag; skraap; skroefdraadsny, en moerdraadsny. Snygereedskap skerpmaak. Die gebruik van trekkers en perse. Die keuse en gebruik van smeermiddels en snymengsels. Wiele van slypmasjiene afwerk, rond, nagaan en monteer.	250
5	Sny, sweissoldeer, soldeer en sweiswerk	Gebruik van gas- en boogsweistoerusting (hegsweiswerk alleenlik). Gebruik van handgassnyuitrusting. Sweissoldeer en soldeer van laste en onderdele.	30
6	Tekeninge en sketse	Tekeninge en sketse maak. Tekeninge, met inbegrip van simbole, lees en begryp.	140
7	Afmerkwerk	Van tekeninge en monsters af afmerk, met gebruikmaking van afmerkgereedskap, bv.— hoekplate; senterponse; verdeelpassers; afmerktafels; gradeboë; liniale; kraspenne; winkelhake; krasblokke, en V-blokke. Die gebruik van meetinstrumente en meters.	150
8	Materiale	Die identifisering en gebruik van materiale.	20
9	Koppelings	Die montering, rigting, foutdiagnosering en onderhoud van verskillende soorte koppelings, bv.— buigsame, soliede en selfrigtende.	100
10	Die pasmaak van spy en sluittoestelle	Die pasmaak van spy en komponente, tappenne, sluitplate, sluitmoere, parallel- en neusspye, splitpenne, borgringe en ander sluittoestelle. Die pas van busse, penne en asse.	100

Logboek simbool	Klas werk	Praktiese opleiding	Minimum on- derrigtyd per klas werk in uur
11	Aandrywings	Die inspeksie, foutdiagnosering, herstel en onderhoud, van— verskillende soorte bandaandrywings; kettingaandrywings; rataandrywings, en hidrouliese aandrywings.	100
12	Laers en busse	Die skraap, installering en pas van laers en busse. Die rig van laers en kussingblokke. Die uitsny van oliegroewe en boor van oliegate. Die identifisering van laers en laerfoutspeuring.	100
13	Installering van masjiene.....	Die installering, waterpas maak en in lyn bring, volgens tekenspesifikasies, van— ratkaste; masjiene; motore, en masjienonderdele. Die gebruik van hysuitrustung.	200
14	Samestelle.....	Die montering van— koeël- en rollaers; koppelings; ratte; hulse, en wiele. Die onderhoud en rig van ratte; ratkaste; motore, en asse, met inbegrip van die gebruik van pasboute, seëls, pakstukke en pakkings. Die installering en onderhoud in ooreenstemming met tekeninge of spesifikasies, van— asse; kruiskoppelings; spille, en assamestelle.	400
15	Smering	Foutdiagnosering by en onderhoud van smeerstelsels, met gebruikmaking van verskillende metodes soos— spat; val, en druksmering. Die aanwending en berging van verskillende soorte smeermiddels.	70
16	Remme en koppelaars	Foutdiagnosering by en onderhoud van die rem, koppelaar en koppelaarsamestelle en versiening en stel van remme en koppelaars.	70
17	Hidroulika.....	Die hervulling en bloei van hidrouliese stelsels. Die instelling en onderhoud, met besondere klem op die reinheid van die vloeistof en stelsel, van— filters; pypleidings; pompe; reservoirs; seëls, en kleppe. Die gebruik van pyptoebehore en voeglasmateriale. Die lees en vertolking van hidrouliese baandiagramme, simbole en hidrouliese media. Foutspeuring in beheer, hidrouliese en bewegingsuitrustung. Die toets van hidrouliese onderdele van 'n masjien. Die ophou van hidrouliese slange.	150
18	Pneumatika	Die installering en onderhoud van— filters; oliesmeeders; drukreëlaars; kleppe; silinders; seëls; pypleidings; kompressors, en reservoirs. Die gebruik van pyptoebehore en voeglasmateriaal. Foutspeuring in beheer, pneumatiese en bewegingsuitrustung. Die teken en begryp van skematiese en lyndiagramme, met inbegrip van simbole.	150
19	Sterkarmskaafmasjien	Die onderhoud van die sterkarmskaafmasjien. Die gebruik van gereedskap en masjientegniek by die afronding van werkstukke.	300
20	Freesmasjien.....	Die onderhoud van 'n freesmasjien. Die gebruik van snygereedskap en toebehore, bv.— verdeelkop.	400
21	Senterdraaibank draai-, masjien- en gereedskap setwerk	Die onderhoud van 'n senterdraaibank. Die keuse en gebruik van die korrekte snelhede en toevoersnelhede. Opstel van werkstukke volgens— hartlyne; buite-diameter; boring, en vlak van werkstukke. Opstel en gebruik van gepunte beitels en hoëspoeddraaibankgereedskap. Draai-, vlak- en afsteekwerk. Keëlvormigdraai deur middel van— onhaaks instel en loskop; onhaaks instel van saamgestelde leibaan, en spitsdraaihulpstuk. Voordraai- en afwerksneë. Draadsnywerk van— binne- en buitedraad; V-drade, en links- en regsdraad. Die draai van werkstukke tussen draaisenters met gebruikmaking van teëhouers. Masjiene en gereedskapsetwerk soos van toepassing op die ambag waar fasiliteite bestaan. Slyp van snybeitels met spesiale klem op snyhoeke en vryruimtes.	800

Logboek simbool	Klas werk	Praktiese opleiding	Minimum on- derrigtyd per klas werk in uur
22	Pypwerk	Die opbou en onderhoud van pypstelsels. Die opknop en toets van kleppe.	70
23	Pompe	Die herstel van enkel- en veeldoelige sentrifugale pompe.	150
24	Dieselenjins	Die onderhoud van brandstof, verkoeling, trek-, rem- en vlamdigte stelsels by diesel-aangedrewe masjiene.	180
25	Spesiale afdelings	Die onderhoud van klipbreker-/meule-aanleg, vervoerbandstelsels, mobiele toerusting, mynhyers en verkoelingstoerusting. Die installering van vlamdigte toerusting.	250

Logboek simbool	Klas werk	Praktiese opleiding	Minimum on- derrigtyd per klas werk in uur
		11. PLAATMETAALWERKER (18)	
1	Induksie	Toepassing van die Myne se Standaardveiligheidskode en prosedures wat op die ambag betrekking het, met besondere aandag aan— mynstandaarde en -prosedures; myntugkode; veiligheidskode en verliesbestryding; die Wet op Manekragopleiding, 1981, en die betrokke leervooraardes.	50
2	Veiligheid	Veiligheid van toepassing op die ambag, met verwysing na— die veilige hantering en versorging van handgereedskap; skadelike en vlambare gasse; vloeistowwe en gasse onder druk; warm en gesmelte metale; elektriese apparaat en installasies; masjienskermering; masjiens- en pneumatiese gereedskap; slypwiele; bewegende en oorhoofse masjinerie; die gebruik van draagbare brandblussers; die uitken van tersaaklike kleurmerke en simboliese veiligheidsstekens ooreenkomstig S.A.B.S.-publikasies 0140 en 1186, onderskeidelik; veiligheidsvoorsorgmaatreëls wat op verbode gebiede van toepassing is; die veilige hantering van materiaal, en die gebruik en aanwending van beskermende klere.	50
3	Eerstehulp	Behandeling vir elektriese skok, hittesteek en beseringskok. Die verwerwing van die Sertifikaat vir Elementêre Eerstehulp.	50
4	Hand- en werkwinkel ge- reedskap	Die versorging en gebruik van gereedskap. Die maak van werkstukke en onderdele met gebruikmaking van die tegnieke van— boor; vyl; saag; skroef- en moerdraadsny, en gereedskap skerpmak. Die gebruik van snymengsels.	360
5	Tekeninge en sketse	Die maak van tekeninge en sketse. Die lees en begryp van tekeninge en simbole.	270
6	Afmerkwark en ontwikkeling	Van tekeninge af afmerk met behulp van— senterponse; verdeelpassers; liniale; kraspenne, en winkelhake en slaglyne. Die ontwikkeling van reëlmatige en nie-reëlmatige vorms, deur gebruik van— parallele lyne; straalhoek-, en triangulasietodes.	450
7	Materiale	Die identifisering en aanwending van materiale met betrekking tot— rek; krimp, en roeswerende behandeling.	45
8	Klinkwerk	Klinkwerk, deur gebruik van verskillende soorte klinknaels.	45
9	Soldering, sweissoldering en sweiswerk	Die hard- en sagsoldeer van ysterhoudende en nie-ysterhoudende metale. Sweissoldering, gassweising en elektriese boogweising. Puntswearing van werkstukke en die voorbereiding van onderdele daarvoor.	360
10	Masjiene	Die bediening van— hand- en kragaangedrewe skroefperse; buig- en voumasjiene; skêre; guillottes, en walsmasjiene.	450
11	Metaalfatsoenering	Die maak van komponente, deur gebruik van toepaslike gereedskap vir plooi, planeer en klink, met inbegrip van die maak van verskillende soorte lasse, bv.— terugoorslag; rand- (stuik); groef; instandhouding; opgeklapte en omgeklapte lasse.	1 125
12	Plaatmetaalwerkswinkelon- dervinding	Die vervaardiging van— leiding; dampkase, en ontstoftingstelsels.	1 065

Logboek simbool	Klas werk	Praktiese opleiding	Minimum on- derrigtyd per klas werk in uur
12. PLAATWERKER (14)			
1	Induksie	Toepassing van die Myne se Standaardveiligheidskode en prosedures wat op die ambag betrekking het, met besondere aandag aan— mynstandaarde en -prosedures; myntugkode; veiligheidskode en verliesbestryding; die Wet op Mannekragopleiding, 1981, en die betrokke leervooraardes.	50
2	Veiligheid	Veiligheid van toepassing op die ambag, met verwysing na— die veilige hantering en versorging van handgereedskap; skadelike en vlambare gasse; vloeistowwe en gasse onder druk; warm en gesmelte metale; elektriese apparaat en installasies; masjienbeskerming; masjien- en pneumatiese gereedskap; slypwiele; bewegende en oorhoofse masjinerie; die gebruik van draagbare brandblussers; die uitken van tersaaklike kleurmerke en simboliese veiligheidstekens ooreenkomstig S.A.B.S.-publikasies 0140 en 1186, onderskeidelik; veiligheidsvoorsorgmaatreëls wat op verbode gebiede van toepassing is; die veilige hantering van materiaal, en die gebruik en aanwending van beskermende klere.	50
3	Eerstehulp	Behandeling vir elektriese skok, hittestreek en beseringskok. Die verwerwing van die Sertifikaat vir Elementêre Eerstehulp.	50
4	Materiale	Identifisering en gebruik van materiale met aandag aan die verskillende soorte koolstofstaal en ysterhoudende metale en hulle eienskappe en hittebehandeling. Identifisering van staalprofiel wat in die ambag gebruik word.	150
5	Hand- en werkwinkel gereed- skap	Die versorging, gebruik en skerpmaak van gereedskap. Die maak van werkstukke met aandag aan snymengsels en gebruikmaking van die basiese tegnieke van— opvul; kap; boor; vyl; huck-verbouting; ruim; klink; saag; skroef-en moerdraadsny. Die opknep, ronding, nagaan en montering van slypmasjienwiele. Die aanbring en gebruik van hegters.	300
6	Tekeninge en sketse	Die maak van tekeninge en sketse. Die lees van tekeninge en sketse met aandag aan simbole, projeksies en toleransies wat gebruik word.	200
7	Afmerk en ontwikkelings	Afmerk van tekeninge en sketse met gebruikmaking van afmerkgereedskap. Uitleë en afmerk en dimensies oordra op staalplate en profiele met inbegrip van pypwerk, met spesifieke verwysing na gebruik en toepassing van berekenings. Parallele-, radiale en driehoekige ontwikkeling van plate en pypwerk.	800
8	Gassnyuitrusting	Die montering en gebruik van oksiasentileengassnyuitrusting. Met die hand langs parallellyne, radiusse en profiele te sny. Die sny van ysterhoudende metale. Die gebruik van reguitlyn oksiasentileengassnymasjiene en die opstel van patrone en materiale. Die gebruik van hitte vir uitsetting en inkrimping, reguitmaak en manipulasie. Die bediening van profielsnymasjiene. Dopverharding van onderdele.	500
9	Sweiswerk	Die elektriese boogswaaising en gasswaaising van staal en legerings in alle posisies. Booggutsing. Oppervlakverharding.	300
10	Masjiengereedskap	Die instelling en verstelling van skêremme, kniplemme en guillotinelemme. Die instelling, verstelling en vervanging van pons en snyblokke. Die pons en sny van materiaal met of die skêr, of die guillotine. Die gebruik van buigmasjiene en perse. Die gebruik van radiaalboormasjiene. Die gebruik van huckverbouting en klinkmasjiene.	400
11	Struktuurstaalwerk	Die uitleë, konstruksie, montering, opstel en hegting van alle soorte staalwerk. Die oprig, rig en waterpasmaak van staalprofiel en struktuurstaalwerk deur middel van verskillende metodes. Die platrig en reguitmaak van struktuurstaalprofiel.	1 000
12	Spesiale afdelings	Instandhouding van klipbreker-/meule- aanleg en toerusting, skagte en skagtorings, afvoerstelsels en mobiele toerusting.	520

Logboek simbool	Klas werk	Praktiese opleiding	Minimum on- derrigtyd per klas werk in uur
13. PLAATWERKER (KETELMAKER) (15)			
1	Induksie	Toepassing van die Myne se Standaardveiligheidskode en prosedures wat op die ambag betrekking het, met besondere aandag aan— mynstandaarde en -prosedures; myntugkode; veiligheidskode en verliesbestryding; die Wet op Mannekragopleiding, 1981, en die betrokke leervooraardes.	50
2	Veiligheid	Veiligheid van toepassing op die ambag, met verwysing na— die veilige hantering en versorging van handgereedskap; skadelike en vlambare gasse; vloeistowwe en gasse onder druk; warm en gesmelte metale; elektriese apparaat en installasies; masjienbeskerming; masjien- en pneumatiese gereedskap; slypwiele; bewegende en oorhoofse masjinerie; die gebruik van draagbare brandblussers; die uitken van tersaaklike kleurmerke en simboliese veiligheidstekens ooreenkomstig S.A.B.S.-publikasies 0140 en 1186, onderskeidelik; veiligheidsvoorsorgmaatreëls wat op verbode gebiede van toepassing is; die veilige hantering van materiaal, en die gebruik en aanwending van beskermende klere.	50

Logboek simbool	Klas werk	Praktiese opleiding	Minimum on- derrigtyd per klas werk in uur
3	Eerstehulp	Behandeling vir elektriese skok, hittesteek en beseringskok. Die verwerwing van Sertifikaat vir Elementêre Eerstehulp.	50
4	Materiale	Identifisering en gebruik van materiale met aandag aan die verskillende soorte koolstofstaal en ysterhoudende metale en hulle eienskappe en hittebehandeling. Identifisering van staalprofiel wat in die ambag gebruik word.	150
5	Hand- en werkwinkelgereedskap	Die versorging, gebruik en skerpmaak van gereedskap. Die maak van werkstukke met aandag aan snymengsels en gebruik van die basiese tegnieke van— opvul; kap; boor; vyl; huckverbouting; ruim; klink; saag; skroef, en moerdraadsny. Die opknop, ronding, nagaan en montering van slypmasjienwiele. Die aanbring en gebruik van hegters.	300
6	Tekeninge en sketse	Die maak van tekeninge en sketse. Die lees van tekeninge en sketse met aandag aan simbole, projeksies en toleransies wat gebruik word.	200
7	Afmerk en ontwikkelings	Afmerk van tekeninge en sketse met gebruikmaking van afmerkgereedskap. Uitlê en afmerk en dimensies oordra op staalplate en profiele met inbegrip van pypwerk, met spesifieke verwysing na gebruik en toepassing van berekenings. Parallele, radiale en driehoekige ontwikkeling van plate en pypwerk.	800
8	Gassnyuitrusting	Die montering en gebruik van oksid-asetileengassnyuitrusting. Met die hand langs parallellyne, radiusse en profiele te sny. Die sny van ysterhoudende metale. Die gebruik van reguitlynoksid-asetileengassnymasjiene en die opstel van patrone en materiale. Die gebruik van hitte vir uitsetting en inkrimping, reguitmaak en manipulasie. Die bediening van profielsnymasjiene. Dopverharding van onderdele.	500
9	Sweiswerk	Die elektriese boogswaaiing en gasswaaiing van staal en legerings in alle posisies. Booggutsing. Oppervlakverharding.	300
10	Masjiengereedskap	Die instelling en verstelling van skêrlemme, kniplemme en guillotinelemme. Die instelling, verstelling en vervanging van ponsse en snyblokke. Die pons en sny van materiaal met of die skêr, of die guillotine. Die gebruik van buigmasjiene en perse. Die gebruik van radiaalboormasjiene. Die gebruik van huckverbouting en klinkmasjiene.	400
11	Struktuurplaatwerk	Die uitlê, konstruksie, montering, opstel en hegting van alle soorte staalwerk. Die oprig, rig en waterpasmaak van staalprofiel en struktuurstaalwerk deur middel van verskillende metodes. Die platrig en reguitmaak van struktuurstaalprofiel.	1 000
12	Spesiale afdelings	Instandhouding van klipbreker-/meule-aanleg en toerusting, skagte en skagtorings, afvoerstelsels en mobiele toerusting en ketels.	520

Logboek simbool	Klas werk	Praktiese opleiding	Minimum on- derrigtyd per klas werk in uur
		14. SKILDER EN VERSIERDER (12)	
1	Induksie	Toepassing van die Myne se Standaardveiligheidskode en prosedures wat op die ambag betrekking het, met besondere aandag aan— mynstandaarde en -prosedures; myntugkode; veiligheidskode en verliesbestryding; die Wet op Mannekragopleiding, 1981, en die betrokke leervoorskrifte.	50
2	Veiligheid	Veiligheid van toepassing op die ambag, met verwysing na— die veilige hantering en versorging van handgereedskap; skadelike en vlambare gasse; vloeistowwe en gasse onder druk; warm en gesmelte metale; elektriese apparaat en installasies; masjienskermering; masjiens- en pneumatiese gereedskap; slawiele; bewegende en oorhoofse masjinerie; die gebruik van draagbare brandblussers; die uitken van tersaaklike kleurmerke en simboliese veiligheidskeiens ooreenkomstig S.A.B.S.-publikasies 0140 en 1186, onderskeidelik; veiligheidsvoorsorgmaatreëls wat op verbode gebiede van toepassing is; die veilige hantering van materiaal, en die gebruik en aanwending van beskermende klere.	50
3	Eerstehulp	Behandeling vir elektriese skok, hittesteek en beseringskok. Die verwerwing van die Sertifikaat vir Elementêre Eerstehulp.	50
4	Gereedskap en materiaal	Die versorging en gebruik van materiaal en gereedskap bv.— verwe; borsels; verdunners, en rollers.	300
5	Oppervlakte	Die voorbereiding van oppervlakte en onderlae.	250
6	Kleurmiddels	Die gebruik van kleurmiddels, verdunners en droërs.	200
7	Aanwending	Aanwending van— verwe; witkalk, en distempers.	300
8	Skoonmaak	Die afhaal van ou verf.	100
9	Meng van verf	Die meng en insny van verf.	150
10	Hoeveelhede en afmetings	Die berekening van werkhoeveelhede en afmetings.	300
11	Verfspuittoerusting	Die gebruik en versorging van verfspuittoerusting.	350

Logboek simbool	Klas werk	Praktiese opleiding	Minimum on- derrigtyd per klas werk in uur
12	Verglasing	Die verglasing van vensters en deure.	150
13	Vlekke en beitsing	Die gebruik maak van verskillende metodes om vlekke te verwyder, beitsing en verf van strepe.	250
14	Metaalvlakke	Die voorbereiding en verf van metaalvlakke.	250
15	Vernis	Vernis en gevorderde kleurmenging.	250
16	Sierverfwerk	Sierverfwerk en plastiekverfwerk.	350
17	Spesiale prosedures	Mattering, houtgreinering, letterskilderwerk (waar fasiliteite beskikbaar is), muurplakwerk en brúe verf.	500
18	Geboue	Die gebruik van— steiers; platforms; hangstoel; en hangsteiers.	470

Logboek simbool	Klas werk	Praktiese opleiding	Minimum on- derrigtyd per klas werk in uur
		15. SWEISER (19)	
1	Induksie	Toepassing van die Myne se Standaardveiligheidskode en prosedures wat op die ambag betrekking het, met besondere aandag aan— mynstandaarde en -prosedures; myntugkode; veiligheidskode en verliesbestryding; die Wet op Manekragopleiding, 1981, en die betrokke leervoorwaardes.	50
2	Veiligheid	Veiligheid van toepassing op die ambag, met verwysing na— die veilige hantering en versorging van handgereedskap; skadelike en vlambare gasse; vloeistowwe en gasse onder druk; warm en gesmelte metale; elektriese apparaat en installasies; masjienbeskerming; masjien- en pneumatiese gereedskap; slypwiele; bewegende en oorhoofse masjinerie; die gebruik van draagbare brandblussers; die uitken van tersaaklike kleurmerke en simboliese veiligheidskeiens ooreenkomstig S.A.B.S.-publiksies 0140 en 1186, onderskeidelik; veiligheidsvoorsorgmaatreëls wat op verbode gebiede van toepassing is; die veilige hantering van materiaal, en die gebruik en aanwending van beskermde klere.	50
3	Eerstehulp	Behandeling vir elektriese skok, hittesteek en beseringskok. Die verwerwing van die Sertifikaat vir Elementêre Eerstehulp.	50
4	Hand- en werkwinkel gereedskap	Die versorging en gebruik van handgereedskap, soos bv.— hamers; beitels; ystersae; liniale; meetbande; winkelhake; slaglyne, en senterponse. Die maak van werkstukke deur middel van die tegnieke van— kap; boor; vyl, en saag. Die gebruik van snymengsels. Die skerpmaak van— boor; beitels, en ontskaaluitrusting.	200
5	Tekeninge en sketse	Die afwerking, haaks maak en montering van wiele en skywe aan slypmasjiene. Die maak van tekeninge en sketse. Die lees en vertolking van struktuur- en ingenieurtekeninge met besondere aandag aan sweissimbole.	200
6	Afmerkwark	Die afmerking van tekeninge en monsters af, met behulp van— hoekplate; flesdomkragte; senterponse; verdeelpassers; afmerktafels; gradeboë; liniale; kraspenne; krasblokke, en V-blokke. Die gebruik van meetinstrumente en meters.	200
7	Materiale	Die identifisering van materiale wat gebruik word, met besondere aandag aan die verskillende soorte koolstofstaal en ysterhoudende metale, met inbegrip van die kenmerke daarvan.	250
8	Gassnytoerusting	Die montering van toerusting. Die keuse van regte spuitstukke. Die keuse en instelling van die regte druk vir verskillende materiaalgroottes, met gebruikmaking van die regte snyspoed vir verskillende metaaldiktes. Die sny met die hand van— reguitlyne; strale; afskuinsings; profiele; hoekprofiele; kanaalprofiele; balke; plate, en asse. Die sny van materiale volgens tekeninge.	350
9	Elektriese boogswiswerk met inbegrip van MIG en TIG	Die keuse, montering en versorging van boogswiswerkuitrusting. Die keuse van die regte kleure swieslense. Die keuse van die regte sweisstroomsterke vir verskillende elektrode- en metaaldiktes. Die versorging van sweiselektrodes. Die slaan en handhawing van die regte booglengte en beweegsnelheid, en die regte elektrodehoek behou. Die uitkenning, beheer en voorkoming van— kraakvorming en verwringing; indringgebrek; saamsmeltversterking; insnyseksies; gasholtes; pypvorming; poreusheid, en oksidering. Die sweisvolgordes wanneer gekromde, ronde en plat oppervlakke opgebou word. Die maak van yster- en nie-ystersweislasse, bv.— stuike; hoek; rand-; fillet-, en oorslagsweislasse in— onderhandse; vertikale; horisontale, en bohandse posisies. Die noodsaaklikheid van voorverhitting; naverhitting en ontspanning van verskillende soorte legeringstaal.	1 800

Logboek simbool	Klas werk	Praktiese opleiding	Minimum on- derrigtyd per klas werk in uur
10	Gutswerk	Die montering en gebruik van gutsuistrusting. Die gebruik van korrekte stellings en hoeke. Die gebruik van korrekte snyspoed. Die maak van sweisvoorbereiding.	100
11	Oksi-asetileensweistoerusting	Die gebruik, versorging en hantering van uitrusting en silinders. Die monteer van uitrusting. Die keuse van die regte druk- en spuitstukke. Die keuse van die regte stawe en vloeimiddels. Die regte lasvoorbereiding. Metaalbeheer en saamsmelting in— onderhandse; vertikale, en horisontale posisies. Die sweissoldering van ysterhoudende en nie-ysterhoudende metale bv.— geelkoper; gietyster; koper; smeebare yster, en weekstaal in die onderhandse posisie.	650
12	Spesiale afdelings	Die instandhouding van— klipbreker/meule-aanlegte; toevoerstelsels; mobiele toerusting; hystoestelle, en verkoelingsaanlegte.	420

Logboek simbool	Klas werk	Praktiese opleiding	Minimum on- derrigtyd per klas werk in uur
		16. TAKELAAR EN TOUWERKE (7)	
1	Induksie	Toepassing van die Myne se Standaardveiligheidskode en prosedures wat op die ambag betrekking het, met besondere aandag aan— mynstandaarde en -prosedures; myntugkode; veiligheidskode en verliesbestryding; die Wet op Mannekragopleiding, 1981, en die betrokke leervooraardes.	50
2	Veiligheid	Veiligheid van toepassing op die ambag, met verwysing na— die veilige hantering en versorging van handgereedskap; skadelike en vlambare gasse; vloei- en gasse onder druk; warm en gesmelte metale; elektriese apparaat en installasies; masjienbeskerming; masjien- en pneumatiese gereedskap; slypwiele; bewegende en oorhoofse masjinerie; die gebruik van draagbare brandblussers; die uitken van tersaaklike kleurmerke en simboliese veiligheidsstekens ooreenkomstig S.A.B.S.-publikasies 0140 en 1186, onderskeidelik; veiligheidsvoorsorgmaatreëls wat op verbode gebiede van toepassing is; die veilige hantering van materiaal, en die gebruik en aanwending van beskermende klere.	50
3	Eerstehulp	Behandeling vir elektriese skok, hittesteek en beseringskok. Die verwerwing van die Sertifikaat vir Elementêre Eerstehulp.	50
4	Hand- en werkwinkel gereed- skap	Versorging en gebruik van gereedskap van toepassing op die ambag bv.— marlprieme; T-naalde; lepels; bekleehamers; vyle; ystersae, en bankslypers.	100
5	Tekeninge en sketse	Die maak van sketse. Die lees en interpretasie van tekeninge met inbegrip van simbole van toepassing in die ambag.	50
6	Gassnyuitrusting	Die gebruik van gassnyuitrusting.	100
7	Toue	Identifisering van— manilla-; sisal-; nylon-; klapperhaar-; hennep- en staaldraadtou. Die trenging, smarting en bekleding van manilla- en staaldraadtou. Die besetting van manillatou. Die binding van staaldraadtou. Die maak van verskillende knope, bv.— oorhandse knoop; platknoop; boeglynknoop; dubbele boeglynknoop; drieslagboeglynknoop; katvoetknoop; trompetknoop; syfer 8-knoop; seilknoop; dubbele seilknoop; skuiflusboeglynknoop; paalsteek aan die bog; carrickknoop; dubbele carrickknoop, en vissersknoop. Die bind van verskillende lusse, bv.— halwe lus; 'n hele slag en twee lus; rollus; skuif- of halterlus; drieslagskuiflus; Black-wall-lus; Becketlus; twee halflusse; timmerlus; kniehalterlag; glyslag; steierslag; marlpriemslag; en wiegdemperslag. Die las van manilla- en staaldraadtou. Die op- en afrol van toue. Die nagaan van toue vir verswakking. Die berging van toue. Die aanwend van tousmeersel.	450

Logboek simbool	Klas werk	Praktiese opleiding	Minimum on- derrigtyd per klas werk in uur
8	Slingertakelwerk	Die maak van stroppe volgens spesifieke lengtes vesel- en draadtou. Die gebruik van krimpmasjiene. Die maak en beklee van terug-, lusoooring- en onverdikte splitsings en toue van natuurlike vesel en kunsvesel en draadtoue.	700
9	Hystakel	Die toets, nagaan en onderhoud van hystakel, met inbegrip van— hake en outomatiese ontkoppelhake. Die installering en gebruik van tou en katrolblokke. Die oprig en gebruik van— katrolblokke; laaibome, en -pale. Die installering en gebruik van— domkragte; rollers, en wenasse. om ladings op te hys en te verskuif.	810
10	Hyskrane	Die vervanging van toue van bok- en swaaiarmkrane. Die montering en demontering van laaibome. Die gebruik van hyskrane om ladings op te hys.	220
11	Hysers en trekkervoere	Die vervanging van toue. Die vervanging van hake, verbindings en grypers.	536
12	Vervoer van ladings	Slinger- en laaitegnieke. Vasmaak- en laaitegnieke.	250
13	Steier-/ en platformwerk	Vasmaak- en stutwerk, deur middel van kettings, spantoestelle, wie en katrolle. Die takeling en oprigting van steiering en platformwerk.	90

Logboek simbool	Klas werk	Praktiese opleiding	Minimum on- derrigtyd per klas werk in uur
		17. TIMMERMAN (3)	
1	Induksie	Toepassing van die Myne se Standaardveiligheidskode en prosedures wat op die ambag betrekking het, met besondere aandag aan— mynstandaarde en -prosedures; myntugkode; veiligheidskode en verliesbestryding; die Wet op Mannekragopleiding, 1981, en die betrokke leervoorwaardes.	50
2	Veiligheid	Veiligheid van toepassing op die ambag, met verwysing na— die veilige hantering en versorging van handgereedskap; skadelike en vlambare gasse; vloeistowwe en gasse onder druk; warm en gesmelte metale; elektriese apparaat en installasies; masjienbeskerming; masjien- en pneumatiese gereedskap; slypwiele; bewegende en oorhoofse masjinerie; die gebruik van draagbare brandblussers; die uitken van tersaaklike kleurmerke en simboliese veiligheidstekens ooreenkomstig S.A.B.S.-publikasies 0140 en 1186, onderskeidelik; veiligheidsvoorsorgmaatreëls wat op verbode gebiede van toepassing is; die veilige hantering van materiaal; en die gebruik en aanwending van beskermende klere.	50
3	Eerstehulp	Behandeling vir elektriese skok, hittesteek en beseringskok. Die verwerping van die Sertifikaat vir Elementêre Eerstehulp.	50
4	Materiale	Die identifisering en gebruik van materiale, soos verskillende soorte timmerhout; laag-hout; komposisiebord, en kennis van die bewaring; opstapeling; berging, en opmeet van materiale.	100
5	Hand- en werkwinkel gereed- skap	Die versorging en gebruik van gereedskap, die maak van werkstukke en onderdele met die gebruikmaking van die tegnieke van— beitel; boor; skaaf; rasper; skuur, en saag. Die skerpmaak van— kraspenne; beitels; skawe, en sae. Die timmerhout met die hand haaks maak.	380
6	Tekeninge en sketse	Die maak van vryhandtekeninge en sketse. Die lees en begryp van tekeninge en huisplanne.	140
7	Afmerk en uitlêwerk	Van tekeninge af afmerk, met gebruikmaking van afmerkgereedskap. Die uitlê van— deure; afskortings; stutte; vensters, en sparre. Die gebruik van— halfhoutvoë; tapvoë, en tong- en groefvoë. Die gebruik van— basislyne; skrynwerkersmeetstokke; waterpasse; skietlode, en liniale.	470

Logboek simbool	Klas werk	Praktiese opleiding	Minimum on- derrigtyd per klas werk in uur
8	Draagbare kraggereedskap.....	Die versorging en gebruik van draagbare kraggereedskap, bv.— boor; groef-; skuur-, en saagmasjiene.	380
9	Voeë	Die versorging en gebruik van masjiengereedskap bv.— boor-; tapgat-; verdiep-; skuur-, en dikteskaafmasjiene.	250
10	Insit en vassit	Die uitle en maak van verskillende soorte voeë, met inbegrip van— swaelstert; tappen; groef; oorslag; halfhout; tap, en tong en groef. Die gebruik van— boute; klampe; spykers; skroewe; vuller, en lym. Die insit en vassit van— deurkosyne; vensterrame; meubels en toebehore; ysterware; prentlyste; vloerlyste; kosynlyste; lyste; gegolfde dakmateriaal; materiale; waterslagplanke, en beton- bekisting. Die maak en hang van— deure, en vensterrame.	1 350
11	Onderhoud	Geboue herstel, opknop, en verander.	400
12	Konstruksie	Die oprig van beskisting. Die oprig van verskillende soorte steierwerk. Die oprig van swaar houtstrukture bv. dakkappe. Die insit van houtvloere. Die merk, rigting en vassit van— boute; skarniere; slotte, en deurknippe.	700

Logboek simbool	Klas werk	Praktiese opleiding	Minimum on- derrigtyd per klas werk in uur
		18. TIMMERMAN EN SKRYNWERKER (4)	
1	Induksie	Toepassing van die Myne se Standaardveiligheidskode en prosedures wat op die ambag betrekking het, met besondere aandag aan— mynstandaarde en -prosedures; myntugkode; veiligheidskode en verliesbestryding; die Wet op Mannekragopleiding, 1981, en die betrokke leervooraardes.	50
2	Veiligheid	Veiligheid van toepassing op die ambag, met verwysing na— die veilige hantering en versorging van handgereedskap; skadelike en vlambare gasse; vloeistowwe en gasse onder druk; warm en gesmelte metale; elektriese apparaat en installasies; masjiensbeskerming; masjiens- en pneumatiese gereedskap; slypwiele; bewegende en oorhoofse masjinerie; die gebruik van draagbare brandblussers; die uitken van tersaaklike kleurmerke en simboliese veiligheidstekens ooreenkomstig S.A.B.S.-publikasies 0140 en 1186, onderskeidelik; veiligheidsvoorsorgmaatreëls wat op verbode gebiede van toe- passing is; die veilige hantering van materiaal, en die gebruik en aanwending van beskermende klere.	50
3	Eerstehulp	Behandeling vir elektriese skok, hittesteek en beseringskok. Die verwerwing van die Sertifikaat vir Elementêre Eerstehulp.	50
4	Materiaal	Die identifisering en gebruik van materiale met inbegrip van— verskillende soorte timmerhout; laaghout, en komposisiebord, en kennis van die— bewaring; opstapeling; berging, en opmeet van materiale en kennis van de- fekte in hout.	100
5	Hand- en werkwinkel- gereedskap	Die versorging en gebruik van gereedskap, die maak van werkstukke en onderdele met die gebruikmaking van die tegnieke van— beitel; boor; skaaf; rasper; skuur, en saag. Die skerpmaak van— krapenne; beitels; skawe, en sae. Timmerhout met die hand haaks maak.	380
6	Tekeninge en sketse	Die maak van vryhandtekeninge en sketse. Die lees en begryp van tekeninge en huisplanne.	140
7	Afmerk-en uitlewerk	Die materiaal wat benodig word opmeet en snylyste opstel. Van tekeninge af afmerk, met gebruikmaking van afmerkgereedskap. Die uitle van— deure; afskortings; stutte; vensters, en sparre; Die gebruik van— basislyne; skrynwerkersmeetstokke; waterpasse; skietlode, en liniale.	470

Logboek simbool	Klas- werk	Praktiese opleiding	Minimum on- derrigtyd per klas werk in uur
8	Draagbare kraggereedskap....	Die versorging en gebruik van draagbare kraggereedskap, bv.— boor-; groef-; skuur-, en saagmasjiene.	
9	Voeë	Die versorging en gebruik van masjiengereedskap, bv.— boor-; tapgat-; verdiep-; skuur-, en dikteskaafmasjiene. Die uitlê en maak van verskillende soorte voeë met inbegrip van— swaelstert; tappen; groef; oorslag; halfhout; tap, en tong en groef. Die gebruik van— klampe; spykers; skroewe; vullers; lymsoorte, en platoppervlaktes en lyste met skuur- papier skuur.	250
10	Insit en vassit	Die insit en vassit van— deurkosyne; vensterrame; meubels en toebehore; ysterware; prentlyste; vloerlyste; kosynlyste; lyste; gegolfde dakmateriaal; materiale; waterslagplanke, en betonbe- kisting.	1 350
11	Vervaardiging	Die maak en hang van— deure, en vensterrame.	800
12	Konstruksie	Die maak van— vensterrame; deurkosyne; deure; houtvensterrame, en kaste. Die oprig van bekisting. Die oprig van verskillende soorte steierwerk. Die oprig van swaar houtstrukture, bv. dakkappe. Die insit van houtvloere. Die merk, rigting en vassit van— boute; skarniere; slotte, en deurknippe. Die binne- en buite- afwerking van geboue.	300

Logboek simbool	Klas werk	Praktiese opleiding	Minimum on- derrigtyd per klas werk in uur
		19. VORMGIETER (11)	
1	Induksie	Toepassing van die Myne se Standaardveiligheidskode en prosedures wat op die ambag betrekking het, met besondere aandag aan— mynstandaarde en -prosedures; myntugkode; veiligheidskode en verliesbestryding; die Wet op Mannekragopleiding, 1981, en die betrokke leervooraardes.	50
2	Veiligheid	Veiligheid van toepassing op die ambag, met verwysing na— die veilige hantering en versorging van handgereedskap; skadelike en vlambare gasse; vloeistowwe en gasse onder druk; warm en gesmelte metale; elektriese apparaat en installasies; masjienbeskerming; masjien- en pneumatiese gereed- skap; slypwiele; bewegende en oorhoofse masjinerie; die gebruik van draagbare brandblussers; die uitken van tersaaklike kleurmerke en simboliese veiligheids- tekens ooreenkomstig S.A.B.S.-publikasies 0140 en 1186, onderskeidelik; veiligheidsvoorsorgmaatreëls wat op verbode gebiede van toepassing is; die veilige hantering van materiaal, en die gebruik en aanwending van beskermende klere.	50
3	Eerste hulp	Behandeling vir elektriese skok, hittesteek en beseringskok. Die verwerwing van die Sertifikaat vir Elementêre Eerstehulp.	50
4	Gietuitrusting en gereedskap	Die gebruik en hantering van gietuitrusting en -gereedskap, bv.— mengers; druklugstampers, en sandwerpers. Die gebruik en versorging van— kaste; kernkaste, en modelle.	300
5	Sand	Die gebruik van natuurlike en sintetiese sand. Die meng van kernsand.	250
6	Maak van gietvorms	Die gebruik van hand- en meganiese stampers. Die sny van lasse, bv.— terugtrekkers, en haakslasse. Die paring en vlottering van lasse. Die maak van lasse. Die droging en uitharding van gietvorms. Die plasing van kernleërs. Die identifisering van die gebruike van skei- stowwe. Die plasing van stukke. Die maak en stapeling van kaste. Die plasing en gebruik van inlopes en stygers. Die versterking van gietvorms. Ontlugting en kernsluiting deur gebruik van verskillende soorte materiaal, bv.— kooks; nylon; ontlugdraad, en was. Die plasing van ontlugters. Sluiting, deur gebruik van die tegnieke van— sluiting van kerns; verseëling van ontlugters; drukstutting, kernstutting, en vas- bout. Die plasing van bo- en ondervorms en beswaring. Die afstryk van gietvorms en kerns. Voorbereiding van skeletmodelle.	2 270
7	Die maak van kerns	Die maak van kerns. Die versterking van kerns deur gebruikmaking van— sandankers; gefabriseerde kernysters, en gegote kernysters. Die ontlugting van kerns. Die gebruik van kernkaste en los stukke. Die gebruik van vuurvaste voorvlakke. Die aanwending van tegnieke wat by kerndroging gebruik word.	1 200
8	Gietwerk en temperatuur be- heer	Die aanwending van tegnieke van gietwerk en temperatuurbeheer.	100
9	Oksi-asetileensnywerk	Die montering en veilige hantering van oksi-asetileensnytoerusting. Die gebruik van oksi-asetileentoerusting vir die sny van stygers en ander verwante ambagtake.	50

SCHEDULE

Logbook symbol	Class of work	Practical training	Minimum instruction time per class of work in hours
1. BLACKSMITH (3)			
1	Induction	Application of the Mines Standard Safety Code and the procedures pertaining to the trade, with special reference to— mine standards and procedures; the mine disciplinary code; the safety code; loss control; and the Manpower Training Act, 1981, and the relevant conditions of apprenticeship.	50
2	Safety	Safety applicable to the trade, with reference to— the safe handling and care of hand tools; noxious and flammable gases; liquids and gases under pressure; hot and molten metals; electrical apparatus and installations; machine protection; machine and pneumatic tools; grinding wheels; moving and overhead machinery; use of portable fire extinguishers; identification of relevant colour markings and symbolic safety signs and accordance with S.A.B.S. publications 0140 and 1186, respectively; safety precautions applicable to prohibited areas; safe handling of materials; and use and application of protective clothing.	50
3	First aid	Treatment for electric shock, heat-stroke and traumatic shock. Obtaining the Elementary First Aid Certificate	50
4	Hand and workshop tools	Care and use of tools. Making of workpieces and parts using the techniques of— drilling; filing; and sawing. Making components, using— dies; jigs; knives; sledges; and swages. Sharpening of cutting tools— Dressing, truing and checking of wheels on grinding machines. Using pneumatic tools.	270
5	Marking off	Marking off from drawings and samples using marking-off tools, e.g.— centre punch; dividers; protactors; rules; scribes; and surface gauges.	50
6	Drawings and sketches	Making of drawings and sketches. Reading and interpreting drawings.	100
7	Oxy-acetylene equipment	Operating and using oxy-acetylene cutting equipment and cutting straight lines, radii and profiles	100
8	Material quantities	Calculating the material quantities and allowances required for forging operations. Estimating material requirements from working drawings.	100
9	Fires and furnaces	Preparing, lighting and using open hearth, gas and oil-fired furnaces.	100
10	Swaging	Striking and swaging with sledgehammers.	350
11	Forging work	Forging of hand and cutting tools and making of components, using anvil	700
12	Fire welding	Fire welding of components including preparing therefor and making allowance for correct quantity of material.	350
13	Power hammers	Operating a power hammer, e.g.— handling; clamping; turning; manipulating forgings under hammer; stamping forgings; cutting; punching; rolling; bending; staving; and swaging of materials. Making forgings, using a power hammer.	1 200
14	Heat treatment	Controlling temperatures and colours in heat treatment processes, i.e.— oilhardening; case hardening; and air and water hardening. Annealing and normalising of metals. Hardening and tempering tools and components.	360
15	Shrinking	Shrinking of tyres and similar work with particular reference to allowances and tolerances.	50
16	Blacksmith shop experience	Additional work making equipment in blacksmith shop, e.g.— pinch bars; railway switches; punches; and chisels.	440

Logbook symbol	Class of work	Practical training	Minimum instruction time per class of work in hours
2. BRICKLAYER (6)			
1	Induction	Application of the Mines Standard Safety Code and the procedures pertaining to the trade, with special reference to— mine standards and procedures; the mine disciplinary code; the safety code; loss control; and the Manpower Training Act, 1981, and the relevant conditions of apprenticeship.	50

Logbook symbol	Class of work	Practical training	Minimum instruction time per class of work in hours
2	Safety	Safety applicable to the trade, with reference to the safe handling and care of hand tools— noxious and flammable gases; hot and molten metals; liquids and gases under pressure; electrical apparatus and installations; machine protection; machine and pneumatic tools; grinding wheels; moving and overhead machinery; use of portable fire extinguishers; identification of relevant colour markings and symbolic safety signs in accordance with S.A.B.S. publications 0140 and 1186, respectively; safety precautions applicable to prohibited areas; safety handling of materials; and use and application of protective clothing.	50
3	First aid	Treatment for electric shock, heat-stroke and traumatic shock. Obtaining the Elementary First Aid Certificate	50
4	Tools and equipment	Care and use of tools, such as— trowels; spirit levels; and various hammers. Erecting, using and inspecting basic and complex scaffolding.	80
5	Materials	Stacking and storing of all bricklayer's materials. Identifying the various types of sand, such as— pit sand; river sand; and plastering sand.	80
6	Setting out and site practice	Interpreting scale drawings and details. Setting out— a right angle; a square; and foundations by using building trade tools. Protecting work in all stages of construction, including the cleaning of work areas. Positioning bricks, blocks and mortar boards. Planning site lay-out.	790
7	Bricklaying and blocklaying	Cutting bricks, such as rough cut and fair cut. Building half-brick walls in stretcher bond. Building— solid brick walls; hollow and solid block walls; cavity walls; foundation brickwork; brick-on-edge; soldier courses; free-standing brick piers; attached piers; and buttresses. Laying damp course. Building in window frames and door frames. Building in brick and tile sills. Positioning precast concrete lintels and sills. Jointing and pointing. Cutting indent holes and chasing. Corbelling. Beam filling. Handling brick reinforcement.	1 760
8	Drainage	Building manholes, including the reducing of manholes by corbels and concrete slab.	390
9	Fireplaces, flues and chimneys	Building chimney breasts and fender walls. Building in flue liners and damp course. Raking out joints for flashing. Terminating flue liners and bedding chimney pots. Building in gas fire flue blocks.	
10	Arches and walling in reconstruction	Setting up centering for arches. Building arches, such as— flat arches; semi-circular arches; and segmental arches, with stock bricks and face bricks. Building an axed arch with stock bricks and face bricks. Walling in reconstructed stone.	390
11	Plastering	Plastering a one-coat brick wall. Plastering window frames and door frames. Screeding to concrete floors.	180
12	Wall and floor tiling	Determining centre lines. Laying quarry and slate tiles, including jointing. Laying crazy paving. Determining levels. Fixing and cutting wall tiles.	110

Logbook symbol	Class of work	Practical training	Minimum instruction time per class of work in hours
		3. CARPENTER (17)	
1	Induction	Application of the Mines Standard Safety Code and the procedures pertaining to the trade, with special reference to— mine standards and procedures; the mine disciplinary code; the safety code; loss control; and the Manpower Training Act, 1981, and the relevant conditions of apprenticeship.	50
2	Safety	Safety applicable to the trade, with reference to— the safe handling and care of hand tools; noxious and flammable gases; liquids and gases under pressure; hot and molten metals; electrical apparatus and installations; machine protection; machine and pneumatic tools; grinding wheels; moving and overhead machinery; use of portable fire extinguishers; identification of relevant colour markings and symbolic safety signs in accordance with S.A.B.S. publications 0140 and 1186, respectively; safety precautions applicable to prohibited areas; safe handling of materials; and use and application of protective clothing.	50
3	First aid	Treatment for electric shock, heat-stroke and traumatic shock. Obtaining the Elementary First Aid Certificate.	50

Logbook symbol	Class of work	Practical training	Minimum instruction time per class of work in hours
4	Materials	Identifying and using materials, such as— various types of timber; plywood; and composition boards; and knowledge of the— Preservation; stacking; storing; and measuring up of materials.	100
5	Hand and workshop tools	Care and use of tools, making workpieces and parts using the techniques of— chiselling; drilling; planning; rasping; sanding; and sawing. Sharpening of— scribers; chisels; planes; and saws. Truing up of timber by hand.	380
6	Drawings and sketches	Making of free-hand drawings and sketches. Reading drawings and house plans.	140
7	Marking off and setting out	Marking off from drawings using marking-off tools. Setting out of— doors; partitions; supports; windows; and spars. Using— half lap joints; mortice joints; and tongue and groove joints. Using— datum lines; joiners rod; levels; plumb lines; and rules.	470
8	Portable power machine tools	Care and use of portable power tools, e.g.— drilling machines; grooving machines; sanding machines; and sawing machines. Care and use of machine tools, e.g.— drilling machines; morticing machines; routine machines; sanding machines; and thicknessing machines.	380
9	Joints.....	Setting out and making of various types of joints, including— dove tail; dowel; groove; lap; half lap; mortice; and tongue and groove. Using— bolts; cleats; nails; screws; filler; and glue.	250
10	Fitting and fixing.....	Fitting and fixing of— door frames; window frames; furniture fittings; iron mongery; picture rails; skirtings; architraves; mouldings; corrugated roofing; materials; weather boarding; and concrete shuttering. Hanging of— doors; and window sashes.	1 350
11	Maintenance	Carrying out building repairs, renovations and alterations.	400
12	Construction	Erecting boxing. Erecting all types of scaffolding. Erecting heavy timber structures, e.g. roof trusses. Laying wooden floors. Marking out, aligning and fitting of— bolts; hinges; locks; and pivot catches.	700

Logbook symbol	Class of work	Practical training	Minimum instruction time per class of work in hours
1	Induction	4. CARPENTER AND JOINER (18) Application of the Mines Standard Safety Code and the procedures pertaining to the trade, with special reference to— mine standards and procedures; the mine disciplinary code; the safety code; loss control; and the Manpower Training Act, 1981, and the relevant conditions of apprenticeship.	50
2	Safety	Safety applicable to the trade, with reference to— the safe handling and care of hand tools; noxious and flammable gases; liquids and gases under pressure; hot and molten metals; electrical apparatus and installa- tions; machine protection; machine and pneumatic tools; grinding wheels; mov- ing and overhead machinery; use of portable fire extinguishers; identification of relevant colour markings and symbolic safety signs in accordance with S.A.B.S. publications 0140 and 1186, respectively; safety precautions applicable to prohib- ited areas; safe handling of materials; and use and application of protective clothing.	50
3	First aid.....	Treatment for electric shock, heat-stroke and traumatic shock. Obtaining the Elemen- tary First Aid Certificate.	50

Logbook symbol	Class of work	Practical training	Minimum instruction time per class of work in hours
4	Materials	Identifying and using materials, such as— various types of timber; plywood; and composition boards; and knowledge of the— preservation; stacking; storing; and measuring up of materials and knowledge of defects in timber.	100
5	Hand and workshop tools	Care and use of tools, making workpieces and parts using the techniques of— chiselling; drilling; planing; rasping; sanding; and sawing. Sharpening of— scribers; chisels; planes; and saws. Trueing up of timber by hand.	380
6	Drawings and sketches	Making of free-hand drawings and sketches. Reading drawings and house plans.	140
7	Marking off and setting out	Marking off from drawings using marking-off tools. Setting out of— doors; partitions; supports; windows; and spars. Using— datum lines; joiner's rods; levels; plumb lines; and rules.	470
8	Portable power machine tools	Care and use of portable power tools, e.g.— drilling; grooving; sanding; and sawing machines. Care and use of machine tools, e.g.— drilling; morticing; routing; sanding; and thicknessing machines.	380
9	Joints.....	Setting out and making of various types of joints, including— dove tail; dowel; groove; lap; panelling; half lap; mortice; and tongue and groove. Using— cleats; nails; screws; filler; glue; and glass-paper for flat surfaces and mouldings.	250
10	Fitting and fixing.....	Fitting and fixing of— door frames; window frames; furniture fittings; ironmongery; picture rails; skirtings; architraves; mouldings; corrugated roofing; materials; weather boarding; and concrete shuttering. Hanging of— doors; and window sashes.	1 350
11	Manufacturing.....	Manufacturing of— window frames; door frames; doors; sashes; and cupboards.	800
12	Construction	Erecting boxing. Erecting all types of scaffolding. Erecting heavy timber structures; e.g. roof trusses. Laying wooden floors. Marking out, aligning and fitting of— bolts; hinges; locks; and pivot catches. Internal and external finishing of buildings.	300

Logbook symbol	Class of work	Practical training	Minimum instruction time per class of work in hours
1	Induction	5. DIESEL MECHANIC/EARTH MOVING EQUIPMENT MECHANIC (1) Application of the Mines Standard Safety Code and the procedures pertaining to the trade, with special reference to— mine standards and procedures; the mine disciplinary code; the safety code; loss control; and the Manpower Training Act, 1981, and the relevant conditions of apprenticeship.	50
2	Safety	Safety applicable to the trade, with reference to— the safe handling and care of hand tools; noxious and flammable gases; liquids and gases under pressure; hot and molten metals; electrical apparatus and installations; machine protection; machine and pneumatic tools; grinding wheels; moving and overhead machinery; use of portable fire extinguishers; identification of relevant colour markings and symbolic safety signs in accordance with S.A.B.S. publications 0140 and 1186, respectively; safety precautions applicable to prohibited area; safe handling of materials; and use and application of protective clothing.	50
3	First aid.....	Treatment for electric shock, heat-stroke and traumatic shock. Obtaining the Elementary First Aid Certificate.	50

Logbook symbol	Class of work	Practical training	Minimum instruction time per class of work in hours
4	Hand and workshop tools	Care and use of tools, making workpieces and parts using the techniques of— drilling; filing; chipping; reaming; sawing; scrapping; screwing; and tapping. Using pullers and presses. Selecting and using lubricants and cutting compounds. Dressing, trueing, checking and mounting of wheels on grinding machines. Identifying, care and use of— torque wrenches; hydraulic jacks; trestles; creepers; and hoists.	200
5	Drawings, sketches and diagrams	Making of drawings and sketches. Reading and interpreting drawings, including symbols.	150
6	Marking off	Marking off from drawings and samples using marking off tools, e.g.— angle plates; centre punch; dividers; marking-off tables; protractors; rules; scribes; squares; surface gauges; and vee blocks. Using measuring instruments and gauges.	150
7	Cutting, brazing, soldering and welding	Using gas and arc welding equipment (tacking only). Using hand-operated gas cutting equipment. Brazing and soldering of joints and components.	30
8	Lubrication and servicing of vehicles	Using different grades and types of oils and greases.	100
9	Batteries	Draining, flushing, servicing and filling of engine sumps, gearboxes and axle housings. Maintaining, charging and storing batteries for diesel vehicles.	50
10	Fasteners	Identifying screw threads, fitting of washers, tightening of screws, fitting of keys, split pins and circlips.	40
11	Hydraulics	Refilling and bleeding of hydraulic systems. Installing and maintaining, with special emphasis on the cleanliness of the fluid and the system, of— filters; pipelines; pumps; reservoirs; seals; and valves. Using pipe fittings and jointing materials. Reading and interpreting hydraulic circuit diagrams, symbols and hydraulic media. Fault finding in control, hydraulic and motive equipment. Testing hydraulic components on a machine. Making up hydraulic hoses.	350
12	Pneumatics	Installing and maintaining— filters; oil lubricators; pressure regulators; valves; cylinders; seals; pipelines; compressors; and reservoirs. Using pipe fittings and jointing materials. Fault finding in control, pneumatic and motive equipment. Drawing and interpreting schematic and line diagrams, including symbols.	200
13	Replacement of parts and sub-assemblies	Removing and replacing— clutches; gearboxes; propeller shafts and universal joints; springs and hangers; front and rear axle assemblies; shock absorber and damper systems; engine assemblies and accessories; steering boxes and linkages; suspension units; brake shoe assemblies; and exhaust units.	400
14	Overhauling engine units	Dismantling, inspecting and assessing for wear— in cylinders; on crankshafts; on main and big end bearings; on camshaft journals and followers; on valves and guides; on pistons and gudgeon pins; and on rockers and shafts. Complete assembling of engines, including overhauling and fitting of— pistons; rings and gudgeon pins; main and big end bearings; valve guides and valves; and connecting rods; Reconditioning of valve seats and faces and checking valve spring tension. Setting valve and ignition timing.	350
15	Cooling systems	Checking for leaks or blockages; cleaning radiators and engine blocks; fitting new radiator hoses; checking thermostats; overhauling water pumps; and checking fan belts for condition and tension.	60
16	Overhauling sub-assemblies	Overhauling, assessing for wear, reassembling and adjusting where necessary of— clutches; gearboxes; propeller shafts; final drive assemblies; front axle assemblies; and rear axle assemblies. Repairing— universal joints; compressor units; suspension systems; power-operated units; automatic transmission; and turbo chargers and blowers. Repairing, overhauling and replacing brake system component parts of— pneumatic; and hydraulic systems.	400
17	Fuel systems	Maintaining and repairing— induction system; fuel pumps; and fuel injector systems.	150

Logbook symbol	Class of work	Practical training	Minimum instruction time per class of work in hours
18	Road wheels	Removing and replacing of— wheels; and tyres and tubes.	50
19	Valve grinding	Rotating of wheels, wheel balancing and aligning. Decarbonising, grinding in valves, replacing cylinder head gaskets and adjusting valve clearances.	200
20	Auto electrical systems	Maintaining and overhauling— generators; alternators; starters; gear shift controls; and instrumentation. Adjusting and repairing of headlights.	200
21	Bearings	Removing and fitting bearings. Packing and repacking bearings.	50
22	Fault finding	Testing, diagnosing and rectifying faults, with emphasis on adjusting and repairing of units and component parts. Towing and vehicle recovery.	550
23	Undercarriages and track	Repairing undercarriages and tracks.	100
24	Flame-proof equipment	Maintaining flame-proof equipment on underground vehicles, as applicable.	100
25	Special sections	Maintaining all diesel engine equipment used on the surface and underground.	290

Logbook symbol	Class of work	Practical training	Minimum instruction time per class of work in hours
		6. ELECTRICIAN (2)	
1	Induction	Application of the Mines Standard Safety Code and the procedures pertaining to the trade, with special reference to— mine standards and procedures; the mine disciplinary code; the safety code; loss control; and the Manpower Training Act, 1981, and the relevant conditions of apprenticeship.	50
2	Safety	Safety applicable to the trade, with reference to— the safe handling and care of hand tools; noxious and flammable gases; liquids and gases under pressure; hot and molten metals; electrical apparatus and installations; machine protection; machine and pneumatic tools; grinding wheels; moving and overhead machinery; use of portable fire extinguishers; identification of relevant colour markings and symbolic safety signs in accordance with S.A.B.S. publications 0140 and 1186, respectively; safety precautions applicable to prohibited areas; safe handling of materials; and use and application of protective clothing.	50
3	First aid	Treatment for electric shock, heat-stroke and traumatic shock. Obtaining the Elementary First Aid Certificate.	50
4	Hand tools and machinery	Care and use of hand tools and workshop machines and portable drilling machines, including the techniques of— filing; sawing; drilling; and tapping. Dressing, truing, checking and mounting of wheels on bench and angle grinders.	100
5	Soldering, welding, and brazing	Hard and soft soldering. Electrical arc and gas welding (tacking only) and brazing.	30
6	Circuits and drawings	Making free-hand drawings and sketches of electrical and electronic circuits and mechanical parts. Interpreting and using schematic diagrams, wiring diagrams and engineering drawings on general construction work.	100
7	Regulations	Application in practice of the regulations appertaining to— the Mines and Works Act; and the Code of Practice for the Wiring of Premises (S.A.B.S. 0142)	80
8	Measuring and testing instruments	Application and use of electrical and electronic testing and measuring instruments, such as— multimeters; meggers; ammeters; impulse testers/surge generators; and oscilloscopes.	160
9	Energy meters	Wiring and reading of energy meters for single phase, three phase and extension of range.	50
10	Conductors and cables	Care, handling and identifying of various types of conductors, cables and trailing cables, including the testing, making off, jointing, sorting and routing thereof.	200
11	Wiring, assembly and installation of switchgear	Wiring, installing and maintaining switchgear and control equipment on single and multiphase distribution boards, sequence and reversing starters and alarm systems. Flame-proofing of panels and switchgear.	600

Logbook symbol	Class of work	Practical training	Minimum instruction time per class of work in hours
12	Connecting motors to starters	Connecting the following to control panels: Squirrel-cage motors; slip-ring motors; D.C. motors; single phase motors; and motor/generator sets.	200
13	Maintenance of A.C. and D.C. machines	Overhauling, maintaining and testing A.C. and D.C. machines, including electronic circuits, with emphasis on removing bearings, repairing slip rings and brushes as well as overhauling motors and commutators	600
14	Mains distribution.....	Wiring and testing single phase, three phase and D.C. power supplies and distribution systems, including balancing of loads, earth leakage protection, earth continuity of system and over-current protection.	600
15	Transformers	Connecting, testing and maintaining of single phase and three phase transformers, including— instrument transformers; lighting transformers; and power (current) transformers.	150
16	Buildings and domestic appliances	Installing, maintaining and repairing of electrical fittings in buildings, and of domestic appliances, including wiring, installation test, stove and geyser repairs and telephone systems.	200
17	H.T. reticulation	Locating, identifying and switching high-tension switching equipment, including— interpreting tripping flags on oil circuit breakers; adjusting protection devices; and overloading and constructing of high tension lines and cables.	130
18	Batteries and loco maintenance	Maintaining batteries and locos, including connecting batteries, charging batteries and testing batteries and locos.	200
19	Electronic equipment	Maintaining and repairing electronic equipment, including— operating test benches; testing control equipment and battery chargers; and testing circuits using oscilloscopes.	150
20	Auto electrical repairs	Repairing and maintaining electrical systems on mine vehicles.	150
21	Special sections	Electrical repair work in lamprooms. Electrical repair work on the following: Crushing/milling plant equipment; refrigeration plants; mobile equipment; and winders.	470

Logbook symbol	Class of work	Practical training	Minimum instruction time per class of work in hours
		7. FITTER (INCLUDING MACHINING) (9)	
1	Induction	Application of the Mines Standard Safety Code and the procedures pertaining to the trade, with special reference to— mine standards and procedures; the mine disciplinary code; the safety code; loss control; and the Manpower Training Act, 1981, and the relevant conditions of apprenticeship.	50
2	Safety	Safety applicable to the trade, with reference to— the safe handling and care of hand tools; noxious and flammable gases; liquids and gases under pressure; hot and molten metals; electrical apparatus and installations; machine protection; machine and pneumatic tools; grinding wheels; moving and overhead machinery; use of portable fire extinguishers; identification of relevant colour markings and symbolic safety signs in accordance with S.A.B.S. publications 0140 and 1186, respectively; safety precautions applicable to prohibited areas; safe handling of materials; and use and application of protective clothing.	50
3	First aid	Treatment for electric shock, heat-stroke and traumatic shock. Obtaining the Elementary First Aid Certificate.	50
4	Hand tools and machinery	Care and use of tools, making workpieces and parts using the techniques of— drilling; filing; chipping; reaming; sawing; scraping; screwing; and tapping. Sharpening cutting tools. Using pullers and presses. Selecting and using lubricants and cutting compounds. Dressing, trueing, checking and mounting wheels on grinding machines.	300
5	Cutting, brazing soldering and welding	Using gas and arc welding equipment (tacking only). Using hand-operated gas cutting equipment. Brazing and soldering of joints and components.	30
6	Drawings and sketches	Making of drawings and sketches. Reading and interpreting drawings, including symbols.	150
7	Marking off	Marking off from drawings and samples using marking-off tools, e.g.— angle plates; centre punch; dividers; marking-off tables; protractors; rules; scribes; squares; surface gauges; and vee blocks. Using measuring instruments and gauges.	150

Logbook symbol	Class of work	Practical training	Minimum instruction time per class of work in hours
8	Materials	Identifying and using materials.	20
9	Couplings	Mounting, aligning, fault diagnosing and maintaining different types of couplings, e.g. flexible, solid and self-aligning.	150
10	Fitting of keys and locking devices	Fitting of keys and components, dowles, locking plates, lock nuts, parallel and gibhead keys, split pins, circlips and other locking devices. Fitting of bushes, pins and shafts.	150
11	Drives.....	Inspecting, fault diagnosing, repairing and maintaining of— various types of belt drives; chain drives; gear drives; and fluid drives.	150
12	Bearings and bushes	Scraping, installing and fitting of bearings and bushes. Aligning bearings and plummer blocks. Cutting oil grooves and drilling oil holes. Identifying bearings and fault finding with regard to bearings.	150
13	Installation of machinery.....	Installing, levelling and lining up, to drawing specifications, of— gearboxes; machines; motors; and machine parts. Using lifting equipment.	300
14	Assemblies.....	Mounting— ball and roller bearings; couplings; gears; sleeves; and wheels. Maintaining and aligning, including the use of fitted bolts, seals, gaskets and packings, of— gears gearboxes; motors; and shafts. Installing and maintaining, in accordance with drawings or specifications, of— shafts universal joints; spindles; and axle assemblies.	600
15	Lubrication.....	Fault diagnosing and maintaining of lubricating systems, using various methods such as— splash; gravity; and forced feed. Application and storage of various lubricants.	100
16	Brakes and clutches.....	Fault diagnosing and maintaining of brake clutches and clutch assemblies and servicing and adjusting of brakes and clutches.	100
17	Hydraulics	Refilling and bleeding hydraulic systems. Installing and maintaining, with special emphasis on the cleanliness of the fluid and the system, of— filters; pipelines; pumps; reservoirs; seals; and valves. Using pipe fittings and jointing material. Reading and interpreting hydraulic circuit diagrams, symbols and hydraulic media. Fault finding in control, hydraulic and motive equipment. Testing hydraulic components on a machine. Making up hydraulic hoses.	200
18	Pneumatics.....	Installing and maintaining— filters; oil lubricators; pressure regulators; valves; cylinders; seals; pipelines; compressors; and reservoirs. Using pipe fittings and jointing material. Fault finding in control, pneumatic and motive equipment. Drawing and interpreting schematic and line diagrams, including symbols.	200
19	Shaping machine	Maintaining a shaping machine. Using tools and machining techniques in the shaping of workpieces.	400
20	Pipe work	Making up and maintaining pipe systems. Overhauling and testing valves.	100
21	Pumps	Repairing single and multi-stage centrifugal pumps.	200
22	Diesel engines	Maintaining fuel, cooling, lubrication, traction, braking and flame-proofing systems on diesel engine operated machines.	300
23	Special sections	Maintaining crushing/milling plant, conveying systems, mobile equipment, winders and refrigeration plant. Installing flame-proof equipment.	420

Logbook symbol	Class of work	Practical training	Minimum instruction time per class of work in hours
		8. FITTER AND TURNER (10)	
1	Induction	Application of the Mines Standard Safety Code and the procedures pertaining to the trade, with special reference to— mine standards and procedures; the mine disciplinary code; the safety code; loss control; and the Manpower Training Act, 1981, and the relevant conditions of apprenticeship.	50
2	Safety	Safety applicable to the trade, with reference to— the safe handling and care of hand tools; noxious and flammable gases; liquids and gases under pressure; hot and molten metals; electrical apparatus and installations; machine protection; machine and pneumatic tools; grinding wheels; moving and overhead machinery; use of portable fire extinguishers; identification of relevant colour markings and symbolic safety signs in accordance with S.A.B.S. publications 0140 and 1186, respectively; safety precautions applicable to prohibited areas; safe handling of materials; and use and application of protective clothing.	50
3	First aid	Treatment for electric shock, heat-stroke and traumatic shock. Obtaining the Elementary First Aid Certificate.	50
4	Hand tools and machinery	Care and use of tools, making workpieces and parts, using the techniques of— drilling; filing; chipping; reaming; sawing; scraping; screwing; and tapping. Sharpening cutting tools. Using pullers and pressers. Selecting and using lubricants and cutting compounds. Dressing, truing, checking and mounting of wheels on grinding machines.	250
5	Cutting, brazing, soldering and welding	Using gas and arc welding equipment (tacking only). Using hand-operated gas cutting equipment. Brazing and soldering of joints and components.	30
6	Drawings and sketches	Making of drawings and sketches. Reading and interpreting drawings, including symbols.	140
7	Marking off	Marking off from drawings and samples using marking-off tools, e.g.— angle plates; centre punch; dividers; marking off tables; protractors; rules; scribes; squares; surface gauges; and vee blocks. Using measuring instruments and gauges.	140
8	Materials	Identifying and using materials.	20
9	Couplings	Mounting, aligning, fault diagnosing and maintaining different types of couplings, e.g. flexible, solid and self-aligning.	100
10	Fitting of keys and locking devices	Fitting of keys and components, dowels, locking plates, lock nuts, parallel and gibhead keys, split pins, circlips and other locking devices. Fitting of bushes, pins and shafts.	100
11	Drives	Inspecting, fault diagnosing, repairing and maintaining of— various types of belt drives; chain drives; gear drives; and fluid drives.	100
12	Bearing and bushes	Scraping, installing and fitting of bearings and bushes. Aligning bearings and plummer blocks. Cutting oil grooves and drilling oil holes. Identifying bearings and fault finding with regard to bearings.	100
13	Installation of machinery	Installing, levelling and lining up, to drawing specifications, of— gearboxes; machines; motors; and machine parts. Using lifting equipment.	200
14	Assemblies	Mounting— ball and roller bearings; couplings; gears; sleeves; and wheels. Maintaining and aligning, including the use of fitted bolts, seals, gaskets and packings, of— gears; gearboxes; motors; and shafts. Installing and maintaining, in accordance with drawings or specifications, of— shafts; universal joints; spindles; and axle assemblies.	400
15	Lubrication	Fault diagnosing and maintaining of lubricating systems, using various methods such as— splash; gravity; and forced feed. Application and storage of various lubricants.	70
16	Brakes and clutches	Fault diagnosing and maintaining of brake clutches and clutch assemblies and servicing and adjusting of brakes and clutches.	70
17	Hydraulics	Refilling and bleeding hydraulic systems. Installing and maintaining, with special emphasis on the cleanliness of the fluid and the system, of— filters; pipelines; pumps; reservoirs; seals; and valves. Using pipe fittings and jointing material. Reading and interpreting hydraulic circuit diagrams, symbols and hydraulic media. Fault finding in control, hydraulic and motive equipment. Testing hydraulic components on a machine. Making up hydraulic hoses.	150

Logbook symbol	Class of work	Practical training	Minimum instruction time per class of work in hours
18	Pneumatics.....	Installing and maintaining— filters; oil lubricators; pressure regulators; valves; cylinders; seals; pipelines; compressors; and reservoirs. Using pipe fittings and jointing material. Fault finding in control, pneumatic and motive equipment. Drawing and interpreting schematic and line diagrams, including symbols.	150
19	Shaping machine.....	Maintaining a shaping machine. Using tools and machining techniques in the shaping of workpieces.	300
20	Milling machine.....	Maintaining a milling machine. Using cutting tools and attachments, e.g. dividing head.	400
21	Centre lathe turning and machine and tool setting	Maintaining a centre lathe. Selecting and using corresponding speeds and feeds. Setting up of workpieces to— centre lines; outside diameter; bore; and face of workpieces. Setting up and using tipped and high speed lathe tools. Turning, facing and parting off. Taper turning by means of— off-set of tails stock; off-set of compound slide; and taper turning attachment. Roughing and finishing cuts. Screw cutting of— inside and outside threads; V-threads; and left-hand and right-hand threads. Turning of workpieces between centres, using steadies. Machine and tool setting applicable to the trade, where facilities exist. Grinding of cutting bits with special emphasis on cutting angles and clearances.	800
22	Pipe work.....	Making up and maintaining pipe systems. Overhauling and testing valves.	70
23	Pumps.....	Repairing single and multi-stage centrifugal pumps.	150
24	Diesel engines.....	Maintaining fuel, cooling, lubrication, traction, braking and flame-proof systems on diesel engine operated machines.	180
25	Special sections.....	Maintaining crushing/milling plant, conveying systems, mobile equipment, winders and refrigeration plant. Installing flame-proof equipment.	250

Logbook symbol	Class of work	Practical training	Minimum instruction time per class of work in hours
1	Induction.....	9. INSTRUMENT MECHANICIAN (INDUSTRIAL) (4) Application of the Mines Standard Safety Code and the procedures pertaining to the trade, with special reference to— mine standards and procedures; the mine disciplinary code; the safety code; loss control; and the Manpower Training Act, 1981, and the relevant conditions of apprenticeship.	50
2	Safety.....	Safety applicable to the trade, with reference to— the safe handling and care of hand tools; noxious and flammable gases; liquids and gases under pressure; hot and molten metals; electrical apparatus and installations; machine protection; machine and pneumatic tools; grinding wheels; moving and overhead machinery; use of portable fire extinguishers; identification of relevant colour markings and symbolic safety signs in accordance with S.A.B.S. publications 0140 and 1186, respectively; safety precautions applicable to prohibited areas; safe handling of materials; and use and application of protective clothing.	50
3	First aid.....	Treatment for electric shock, heat-stroke and traumatic shock. Obtaining the Elementary First Aid Certificate.	50
4	Hand and workshop tools.....	Care and use of tools. Making of workpieces and parts using the techniques of— drilling; filing; reaming; sawing; screwing; and tapping. Using cutting compounds. Sharpening cutting tools. Dressing, truing and checking wheels on grinding machines. Bending copper and stainless steel pipes up to 16 mm diameter.	200
5	Materials.....	Identifying and using materials used in the trade.	50
6	Drawings, sketches and diagrams	Making and reading drawings and sketches of instrument control loops, mechanical parts and electronic circuits, including symbols used.	200
7	Marking off.....	Marking off from drawings and samples using marking-off tools, e.g.— centre punch; prick punch; dividers; rules; scribes; protactors; and squares.	50
8	Making of thermocouples.....	Making thermocouples using gas welding equipment.	50

Logbook symbol	Class of work	Practical training	Minimum instruction time per class of work in hours
9	Soldering and desoldering	Hard and soft soldering of ferrous and non-ferrous metals and the preparation of parts. Using various grades and types of solder and soldering irons, including low voltages and thermostatically controlled types. Making soldered joints without damaging delicate components. Desoldering techniques using appropriate tools.	200
10	Measuring instruments	Using measuring instruments, with special reference to— ammeters; bridges; multimeters; ohmmeters; oscilloscopes; voltmeters; pulse generators; frequency counters; and millivolt sources. Interpreting and evaluating readings.	300
11	Power supplies	Applying, assembling and testing various instrument power supplies.	50
12	Electrical, electronic and pneumatic work	Assembling and testing of and fault finding with regard to electrical, electronic and pneumatic modules for instrumentation control.	400
13	Sensors and transmitters	Testing, repairing, replacing and calibrating all types of sensors and transmitters used for— speed; pressure; temperature; position; level; mass; and flow.	250
14	Instrument maintenance.....	Dismantling repairing; assembling; aligning; adjusting; and calibrating. Recording and control instruments.	1 050
15	Automatic control systems....	Fault finding, repairing and parameter tuning of control systems as used in process control.	750
16	Special sections	Maintaining instrumentation and control in— crushing; milling plant; conveying systems; mobile equipment; winders; and refrigeration plant.	620

Logbook symbol	Class of work	Practical training	Minimum instruction time per class of work in hours
		10. MOTOR MECHANIC (8)	
1	Induction	Application of the Mines Standard Safety Code and the procedures pertaining to the trade, with special reference to— mine standards and procedures; the mine disciplinary code; the safety code; loss control; and the Manpower Training Act, 1981, and the relevant conditions of apprenticeship.	50
2	Safety	Safety applicable to the trade, with reference to— the safe handling and care of hand tools; noxious and flammable gases; liquids and gases under pressure; hot and molten metals; electrical apparatus and installations; machine protection; machine and pneumatic tools; grinding wheels; moving and overhead machinery; use of portable fire extinguishers; identification of relevant colour markings and symbolic safety signs in accordance with S.A.B.S. publications 0140 and 1186, respectively; safety precautions applicable to prohibited areas; safe handling of materials; and use of application of protective clothing.	50
3	First aid	Treatment for electric shock, heat-stroke and traumatic shock. Obtaining the Elementary First Aid Certificate.	50
4	Hand and workshop tools	Care and use of tools. Making workpieces and parts using the techniques of— chipping; drilling; filing; reaming; sawing; scraping; screwing; and tapping. Selecting and using lubricants and cutting compounds. Using hydraulic pullers and pressers. Fitting locking devices. Dressing, trueing, checking and mounting wheels on grinding machines.	200
5	Drawings and sketches and diagrams	Making drawings and sketches. Reading and interpreting drawings, including symbols.	150
6	Marking off	Marking off from drawings and samples with the aid of— centre punch; dividers; protractors; rules; scribes; squares; and surface gauges.	150
7	Materials	Identifying and using materials.	50
8	Cutting, brazing, soldering and welding	Using gas and arc welding equipment (tacking only). Using hand-operated gas cutting equipment. Brazing and soldering of joints and components.	30
9	Engine tuning	Running and tuning adjustments, e.g.— carburettor; ignition; plugs; points; timing; and tappet clearances. Removing and replacing components.	220

Logbook symbol	Class of work	Practical training	Minimum instruction time per class of work in hours
10	Repair, maintenance and fault finding	Assessing for wear on components such as— connecting rods; bearings; camshafts and crankshafts; cylinders; gudgeon pins; push rods; valve guides; springs; pistons; and timing gears. Locating and identifying faults. Engine decarbonising and valve grinding. Maintaining and overhauling cooling systems. Replacing pistons, rings and bearings. Removing and replacing engine accessories. Application of maintenance schedules and lubricants.	900
11	Batteries	Maintaining, charging and storing batteries for motor vehicles.	50
12	Electrical systems	Maintaining and adjusting electrical equipment, e.g.— alternators; coils; cut-outs; distributors; generator; regulators; starters; and wiring circuits. Testing circuits. Testing circuits and assemblies by systematic fault finding and using appropriate test equipment. Replacing assemblies and faulty components.	350
13	Transmission systems	Fault finding, maintaining and repairing of transmission systems.	740
14	Suspension systems	Maintaining, adjusting and restoring of— coil systems; leaf and rubber suspension systems; shock absorbers; steering systems; and tyres. Diagnosing and remedying by application of differentiation between wear requiring replacement and wear requiring adjustment. Removing and replacing worn or faulty parts of suspensions and adjusting to correct running condition.	360
15	Undercarriages	Maintaining and replacing of— chassis frames; exhaust systems; mechanical braking systems; and undercarriage components. Differentiating between conditions requiring specialised repair or replacement.	135
16	Hydraulic systems	Reading and interpreting hydraulic circuit diagrams, symbols and hydraulic media. Maintaining and adjusting— hydraulic pumps; joints; lines; master and slave cylinders; pipes; unions; and valves. Maintaining hydraulic assemblies. Removing and replacing hydraulic components, with special attention to cleanliness of components and media. Locating faults by systematic fault finding and adjustment. Replacing worn or faulty components and parts. Refilling and bleeding hydraulic systems.	200
17	Pneumatic systems	Repairing and replacing faulty assemblies, with special attention to cleanliness of components.	180
18	Special sections	Maintaining all petrol engined equipment used on mines.	455

Logbook symbol	Class of work	Practical training	Minimum instruction time per class of work in hours
		11. MOULDER (19)	
1	Induction	Application of the Mines Standard Safety Code and the procedures pertaining to the trade, with special reference to— mine standards and procedures; the mine disciplinary code; the safety code; loss control; and the Manpower Training Act, 1981, and the relevant conditions of apprenticeship.	50
2	Safety	Safety applicable to the trade, with reference to— the safe handling and care of hand tools; noxious and flammable gases; hot and molten metals; liquids and gases under pressure; electrical apparatus and installations; machine protection; machine and pneumatic tools; grinding wheels; moving and overhead machinery; use of portable fire extinguishers; identification of relevant colour markings and symbolic safety signs in accordance with S.A.B.S. publications 0140 and 1186, respectively; safety precautions applicable to prohibited areas; safe handling of materials; and use and application of protective clothing.	50
3	First aid	Treatment for electric shock, heat-stroke and traumatic shock. Obtaining the Elementary First Aid Certificate.	50

Logbook symbol	Class of work	Practical training	Minimum instruction time per class of work in hours
4	Foundry equipment and tools	The use and handling of foundry equipment and tools, e.g.— mixers; feeders; pneumatic rammers; and sand slingers.	300
5	Sand.....	The use of natural and synthetic sands. The mixing of core sand.	250
6	Mould making.....	Using hand and mechanical rammers. Cutting of joints, such as— drawbacks; and square joints. Pairing and floating of joints. Making joints. Drying and curing of moulds. Locating core points. Identifying uses of parting materials. Locating of pieces. Making and stacking of boxes. Positioning and using runners and risers. Reinforcing of moulds. Venting and coring-up using various materials, such as— core; nylon; vent wire; and wax. Locating of vents. Closing, using the techniques of— coring up; sealing of vents; sconcing; schaplets; and bolting. Locating cope and drag weighting. Setting up for strickle. Striking of moulds and cores. Preparing of skeleton patterns.	2 270
7	Core making.....	Making of cores. Reinforcing of cores using— lifters; fabricated core irons; and cast-iron core irons. Venting of cores. Using core boxes and loose pieces. Using refractory facings. Applying techniques used in core drying.	1 200
8	Casting and temperature control	Applying techniques of casting and temperature control.	100
9	Oxy-acetylene cutting equipment	Assembling and safe operating of oxy-acetylene cutting equipment. Using oxy-acetylene equipment for cutting risers and other trade-related tasks.	50

Logbook symbol	Class of work	Practical training	Minimum instruction time per class of work in hours
12. PAINTER AND DECORATOR (14)			
1	Induction.....	Application of the Mines Standard Safety Code and the procedures pertaining to the trade, with special reference to— mine standards and procedures; the mine disciplinary code; the safety code; loss control; and the Manpower Training Act, 1981, and the relevant conditions of apprenticeship.	50
2	Safety.....	Safety applicable to the trade, with reference to— the safe handling and care of hand tools; noxious and flammable gases; liquids and gases under pressure; hot and molten metals; electrical apparatus and installations; machine protection; machine and pneumatic tools; grinding wheels; moving and overhead machinery; use of portable fire extinguishers; identification of relevant colour markings and symbolic safety signs in accordance with S.A.B.S publications 0140 and 1186, respectively; safety precautions applicable to prohibited areas; safe handling of materials; and use and application of protective clothing.	50
3	First aid.....	Treatment for electric shock, heat-stroke and traumatic shock. Obtaining the Elementary First Aid Certificate.	50
4	Tools and materials.....	Care and use of materials and tools, e.g.— paints; brushes; thinners; and rollers.	300
5	Surfaces.....	Preparing surfaces and undercoating.	250
6	Pigments.....	Using pigments, thinners and driers.	200
7	Application.....	Applying— paints; lime washes; and distempers.	300

Logbook symbol	Class of work	Practical training	Minimum instruction time per class of work in hours
8	Cleaning.....	Cleaning off old paint.	100
9	Paint mixing	Mixing and blending paint.	150
10	Quantities and measurements	Calculating working quantities and measurements.	300
11	Spray painting equipment.....	Using and care of spray painting equipment.	350
12	Glazing	Glazing of windows and doors.	150
13	Stains and staining	Using various methods for cleaning off stains, and staining and lining.	250
14	Metal surfaces	Preparing and painting of metal surfaces.	250
15	Varnishing	Varnishing and advanced colour mixing.	250
16	Decoration	Decorative painting and plastic paintwork.	350
17	Special procedures	Frosting, wood graining, sign writing (where facilities exist), paper hanging and bridge painting.	500
18	Buildings.....	Using— scaffolding; staging; boatswain chairs; and suspended scaffolding.	470

Logbook symbol	Class of work	Practical training	Minimum instruction time per class of work in hours
		13. PATTERNAKER (7)	
1	Induction	Application of the Mines Standard Safety Code and the procedures pertaining to the trade, with special reference to— mine standards and procedures; the mine disciplinary code; the safety code; loss control; and the Manpower Training Act, 1981, and the relevant conditions of apprenticeship.	50
2	Safety	Safety applicable to the trade, with reference to— the safe handling and care of hand tools; noxious and flammable gases; liquids and gases under pressure; hot and molten metals; electrical apparatus and installations; machine protection; machine and pneumatic tools; grinding wheels; moving and overhead machinery; use of portable fire extinguishers; identification of relevant colour markings and symbolic safety signs in accordance with S.A.B.S. publications 0140 and 1186, respectively; safety precautions applicable to prohibited areas; safe handling of materials; and use and application of protective clothing.	50
3	First aid	Treatment for electric shock, heat-stroke and traumatic shock. Obtaining the Elementary First Aid Certificate.	
4	Hand and workshop tools	Care and use of— hand tools; portable electrical tools; and equipment. Making of workpieces and parts from various types of timber, hardwoods, plywoods and resins, using the techniques of— drilling; filing; reaming; sawing; scraping; chiseling; rasping; planing; sanding; screwing; and tapping. Sharpening of— chisels; drills; and scrapers.	250
5	Woodworking machines	Manufacturing and maintaining patterns and accessories by working and setting— band saws; bench bobbins; circular saws; planers; sanding discs; and woodworking lathes.	250
6	Setting out, marking off and sketching	Setting out and marking off from drawings with the aid of— centre punches; dividers; rulers; scribes; and squares. Making free-hand drawings and sketches. Reading and interpreting drawing.	500
7	Application and recognition of timber and resins	Identifying direction of grains. Recognising and using various types of hard and soft wood and resins.	50
8	Joints.....	Making— butt joints; dovetail joints; and lap joints. in wooden patterns using— dowelling; glueing; nailing; and screwing.	200
9	Pattern and core boxes.....	Constructing, maintaining, care and repairing of patterns and core boxes, using— tappers; prints; lifting straps; rapping plates; plate patterns; skeleton work; strickle work; box patterns; and segment work. Mounting and matching of patterns. Running-in casting methods.	2 570

Logbook symbol	Class of work	Practical training	Minimum instruction time per class of work in hours
10	Finishing	Finishing-off by use of— sand papering; waxing; leather filleting; and painting.	100
11	Calculations.....	Calculating and making allowances for— contraction; warping; machining; and preventing cracking in castings.	50
12	Foundry experience.....	Working with moulders in respect of— the flow of metals in runners; risers; and the venting of moulds and cores.	200

Logbook symbol	Class of work	Practical training	Minimum instruction time per class of work in hours
		14. PLATER (12)	
1	Induction	Application of the Mines Standard Safety Code and the procedures pertaining to the trade, with special reference to— mine standards and procedures; the mine disciplinary code; the safety code; loss control; and the Manpower Training Act, 1981, and the relevant conditions of apprenticeship.	50
2	Safety	Safety applicable to the trade, with reference to— the safe handling and care of hand tools; noxious and flammable gases; liquids and gases under pressure; hot and molten metals; electrical apparatus and installations; machine protection; machine and pneumatic tools; grinding wheels; moving and overhead machinery; use of portable fire extinguishers; identification of relevant colour markings and symbolic safety signs in accordance with S.A.B.S. publications 0140 and 1186, respectively; safety precautions applicable to prohibited areas; safe handling of materials; and use and application of protective clothing.	50
3	First aid.....	Treatment for electric shock, heat-stroke and traumatic shock. Obtaining the Elementary First Aid Certificate.	50
4	Materials	Identifying and using materials, with reference to the different types of carbon steels and ferrous metals and their characteristics and heat treatment. Identifying steel sections used in the trade.	150
5	Hand and workshop tools	Care, use and sharpening of tools. Making workpieces with attention to cutting compounds, using the techniques of— caulking; chipping; drilling; filing; huck-bolting; reaming; riveting; sawing; screwing; and tapping. Dressing, truing, checking and mounting of wheels on grinding machines. Application and use of fasteners.	300
6	Drawings and sketches	Making of drawing and sketches. Reading drawings and sketches with attention to symbols, projections and tolerances used.	200
7	Marking off and developments	Marking off from drawings and sketches using marking-off tools. Laying, marking out and transferring dimensions to steel plates and sections, including piping, with specific reference to the application of calculations. Parallel, radial and triangular developing of plates and pipe work.	800
8	Gas cutting equipment.....	Assembling and using oxy-acetylene gas cutting equipment. Hand cutting to parallel lines, radii and profiles. Cutting ferrous metals. Using straight-line oxy-acetylene cutting machines and setting up templates and materials. Using heat for expansion and contraction, straightening and manipulation. Operating a profile cutting machine. Case-hardening parts.	500
9	Welding	Electric arc and gas welding of steels and alloys in all positions. Arc gouging. Hard facing.	300
10	Machine tools.....	Adjusting and setting of shear blades, cropping-blades and guillotine blades. Adjusting, setting and replacement of punches and dies. Punching and cutting material with either shears or guillotines. Using bending brakes and presses. Using radial drilling machines. Using huck-bolt and riveting machines.	400
11	Structural steel work.....	Laying out, constructing, assembling, setting-up and tacking of all types of steel work. Erecting, lining-up and levelling of steel sections and structural steelwork using various methods. Flattening and straightening of structural steel sections.	1 000
12	Special sections	Maintaining crushing/milling plant equipment, shafts and headgears, conveyor systems and mobile equipment.	520

Logbook symbol	Class of work	Practical training	Minimum instruction time per class of work in hours
15. PLATER (BOILERMAKER) (13)			
1	Induction	Application of the Mines Standard Safety Code and the procedures pertaining to the trade, with special reference to— mine standards and procedures; the mine disciplinary code; the safety code; loss control; and the Manpower Training Act, 1981, and the relevant conditions of apprenticeship.	50
2	Safety	Safety applicable to the trade, with reference to— the safe handling and care of hand tools noxious and flammable gases; liquids and gases under pressure; hot and molten metals; electrical apparatus and installations; machine protection; machine and pneumatic tools; grinding wheels; moving and overheading machinery; use of portable fire extinguishers; identification of relevant colour markings and symbolic safety signs in accordance with S.A.B.S. publications 0140 and 1186, respectively; safety precautions applicable to prohibited areas; safe handling of materials; and use and application of protective clothing.	50
3	First aid	Treatment for electric shock, heat-stroke and traumatic shock. Obtaining the Elementary First Aid Certificate.	150
4	Materials	Identifying and using materials with reference to the different types of carbon steels and ferrous metals and their characteristics and heat treatment. Identifying steel sections used in the trade.	
5	Hand and workshop tools	Care, use and sharpening of tools. Making workpieces with attention to cutting compounds, using the techniques of— caulking; chipping; drilling; filing; huck-bolting; reaming; riveting; sawing; screwing; and tapping. Dressing, truing, checking and mounting of wheels on grinding machines. Application and use of fasteners.	300
6	Drawings and sketches	Making of drawings and sketches. Reading drawings and sketches with attention to symbols, projections and tolerances used.	200
7	Marking off and developments	Marking off from drawings and sketches using marking-off tools. Laying, marking out and transferring dimensions to steel plates and sections, including piping, with specific reference to the application of calculations. Parallel, radial and triangular developing of plates and pipe work.	800
8	Gas cutting equipment	Assembling and using oxy-acetylene gas cutting equipment. Hand cutting to parallel lines, radii and profiles. Cutting ferrous metals. Using straight-line oxy-acetylene cutting machines and setting up templates and materials. Using heat for expansion and contraction, straightening and manipulation. Operating a profile cutting machine. Case-hardening parts.	500
9	Welding	Electric arc and gas welding of steels and alloys in all positions. Arc gouging. Hard facing.	300
10	Machine tools	Adjusting and setting of shear blades, cropping blades and guillotine blades. Adjusting, setting and replacement of punches and dies. Punching and cutting material with either shears or guillotines. Using bending brakes and presses. Using radial drilling machines. Using huck-bolt and riveting machines.	400
11	Structural steel work	Laying out, constructing, assembling, setting-up and tacking of all types of steel work. Erecting, lining up and levelling of steel sections and structural steel work using various methods. Flattening and straightening of structural steel sections.	1 000
12	Special sections	Maintaining crushing/milling plant equipment, shafts and headgears, conveyor systems, mobile equipment and boilers.	520
16. PLUMBER (5)			
1	Induction	Application of the Mines Standard Safety Code and the procedures pertaining to the trade, with special reference to— mine standards and procedures; the mine disciplinary code; the safety code; loss control; and the Manpower Training Act, 1981, and the relevant conditions of apprenticeship.	50

Logbook symbol	Class of work	Practical training	Minimum instruction time per class of work in hours
2	Safety	Safety applicable to the trade, with reference to— the safe handling and care of hand tools; noxious and flammable gases; liquids and gases under pressure; hot and molten metals; electrical apparatus and installations; machine protection; machine and pneumatic tools; grinding wheels; moving and overhead machinery; use of portable fire extinguishers; identification of relevant colour markings and symbolic safety signs in accordance with S.A.B.S. publications 0140 and 1186, respectively; safety precautions applicable to prohibited areas; safe handling of materials; and use and application of protective clothing.	50
3	First aid	Treatment for electric shock, heat-stroke and traumatic shock. Obtaining the Elementary First Aid Certificate.	50
4	Materials	Using— pipe fittings; various kinds of washers and packings; and various kinds of steel used in the trade.	100
5	Hand and workshop tools	Care and use of tools, making workpieces and parts using the techniques of— drilling; filing; reaming; sawing; screwing; tapping; and threading. Sharpening tools. Using cutting compound. Dressing, trueing, checking and mounting of grinding wheels.	400
6	Plans, drawings and sketches	Making drawings and sketches. Reading of plans and drawings, including symbols.	180
7	Regulations	Application in practice of municipal regulations. Installing, setting and maintaining of pressure regulating and relief valves.	200
8	Marking off and development	Marking off from drawings using marking-off tools, e.g.— centre punch; prick punch; dividers; rules; scribes; protractors; and squares. Developing regular and non-regular shapes using— parallel line; radial; and triangulation methods. Sheetmetalwork and riveting.	650
9	Operating of machines	Operating— hand-operated bending and folding machines; shears; guillotine; and rolling machines.	300
10	Soldering and lead work	Soldering and the preparation of parts. Tinning and using fluxes. Lead burning. Using gas equipment for heating, brazing and tack welding.	140
11	Pipe work	Water pipes: Cutting; treading; jointing; and laying. Fitting and fixing of— expansion joints; copper piping; waste and outlet pipes; traps vent pipes; stopcocks and valves; cast iron pipe work; and drain pipes. Cutting and fitting of gutters and flashings. Laying and jointing of various drain pipes. Jointing and laying of lead piping.	1 500
12	Installations	Installing— hot water systems; drainage systems; closet and urinal suites; cisterns; traps; septic tanks; manholes; and meters.	500
13	Sealants and adhesives	Applying sealants and adhesives on jointing.	50
14	Maintenance	Rectifying faults and blockages in pipes and drains.	150

Logbook symbol	Class of work	Practical training	Minimum instruction time per class of work in hours
1	Induction	17. RIGGER AND ROPEMAN (16) Application of the Mines Standard Safety Code and the procedures pertaining to the trade, with special reference to— mine standards and procedures; the mine disciplinary code; the safety code; loss control; and the Manpower Training Act, 1981, and the relevant conditions of apprenticeship.	50

Logbook symbol	Class of work	Practical training	Minimum instruction time per class of work in hours
2	Safety	Safety applicable to the trade, with reference to— the safe handling and care of hand tools; noxious and flammable gases; liquids and gases under pressure; hot and molten metals; electrical apparatus and installations; machine protection; machine and pneumatic tools; grinding wheels; moving and overhead machinery; use of portable fire extinguishers; identification of relevant colour markings and symbolic safety signs in accordance with S.A.B.S. publications 0140 and 1186, respectively; safety precautions applicable to prohibited areas; safe handling of materials; and use and application of protective clothing.	50
3	First aid	Treatment for electric shock, heat-stroke and traumatic shock. Obtaining the Elementary First Aid Certificate.	50
4	Hand and workshop tools	Care and use of tools applicable to the trade, such as— marlin spikes; T-needles; spoons; serving mallets; files; hacksaws; and bench grinders.	100
5	Drawings and sketches	Making of sketches. Reading and interpreting drawings, including symbols applicable to the trade.	50
6	Gas cutting equipment	Using gas equipment for cutting.	10
7	Ropes	Identifying— manilla rope; sisal rope; nylon rope; coir rope; hemp rope; and steel wire rope. Worming, parcelling and serving manilla and steel wire rope. Whipping a manilla rope. Seizing a steel wire rope. Tying of various knots, e.g.— an overhand knot; a reef knot; a bowline knot; a double bowline knot; a triple bowline knot; a catspaw; a sheepshank; a figure of eight knot; a sheet bend; a double sheet bend; a running bowline; a bowline on the bight; a carrick bend; a double carrick bend; and a fisherman's bend. Tying of various hitches, e.g.— a half hitch; a round turn and two hitch; a rolling hitch; a noose or halter hitch; a triple sliding hitch; a Blackwall hitch; a Becket hitch; two half hitches; a timber hitch; a clove hitch; a slippery hitch; a scaffold hitch; a marlin spike hitch; and a snubber. Splicing manilla and steel wire ropes. Coiling and uncoiling of ropes. Inspecting ropes for deterioration. Storing ropes. Applying rope dressings.	450
8	Slings tackle	Making of slings from fibre and wire ropes to specific lengths. Using a crimping machine. Making and serving back, eye, thimble, and long splices and grommets from natural and synthetic fibre and wire ropes.	700
9	Lifting tackle	Testing, checking and maintaining of lifting tackle, including— hooks; and automatic detaching hooks. Installing and using rope and blocks. Erecting and using— sheer legs; derricks; and poles. Installing and using— jacks; rollers; and winches, for lifting and moving loads.	810
10	Cranes	Renewing ropes on gantry and jib cranes. Assembling and dismantling of derricks. Using cranes for lifting loads.	220
11	Hoists and haulages	Renewing winding ropes. Replacing of hooks, connections and grabs.	536
12	Transporting loads	Slings and loading techniques. Securing and loading techniques. Securing and shoring using chains, tensioning devices, wedges and blocks.	250
13	Scaffolding and staging	Rigging and erecting of scaffolding and staging.	90

Logbook symbol	Class of work	Practical training	Minimum instruction time per class of work in hours
18. SHEETMETAL WORKER (1)			
1	Induction	Application of the Mines Standard Safety Code and the procedures pertaining to the trade, with special reference to— mine standards and procedures; the mine disciplinary code; the safety code; loss control; and the Manpower Training Act, 1981, and the relevant conditions of apprenticeship.	50
2	Safety	Safety applicable to the trade, with reference to— the safe handling and care of hand tools; noxious and flammable gases; liquids and gases under pressure; hot and molten metals; electrical apparatus and installations; machine protection; machine and pneumatic tools; grinding wheels; moving and overhead machinery; use of portable fire extinguishers; identification of relevant colour markings and symbolic safety signs in accordance with S.A.B.S. publications 0140 and 1186, respectively; safety precautions applicable to prohibited areas; safe handling of materials; and use and application of protective clothing.	50
3	First aid	Treatment for electric shock, heat-stroke and traumatic shock. Obtaining the Elementary First Aid Certificate.	50
4	Hand and workshop tools	Care and use of tools, making workpieces and parts using the techniques of— drilling; filing; sawing; screwing and tapping; and sharpening of tools. Using cutting compounds.	360
5	Drawings and sketches	Making drawings and sketches. Reading and interpreting drawings and symbols.	270
6	Marking off and development	Marking off from drawings with the aid of— centre punch; dividers; rules; scribes; and squares and chalkline. Developing of regular and non-regular shapes using— parallel line; radial; and triangulation methods.	450
7	Materials	Identification and application of materials regarding— stretching; shrinking; and anti-corrosive treatment.	45
8	Riveting	Riveting, using various types of rivets.	45
9	Soldering, brazing and welding	Hard and soft soldering of ferrous and non-ferrous metals. Brazing, gas welding and electric arc welding. Spot welding of workpieces and the preparation of parts.	360
10	Machines	Operating— hand and power operated fly presses; bending and folding machines; shears; guillotines; and rolling machines.	450
11	Metal forming	Making of components using appropriate tools for creasing, planishing and riveting, including the making of various types of joints, such as— backlapping; edge-on (butt); grooved; joggling; and knocked up and paned down.	1 125
12	Sheetmetal shop experience	Manufacturing of— ducting; fume cabinets; and dust extraction systems.	1 065

Logbook symbol	Class of work	Practical training	Minimum instruction time per class of work in hours
19. WELDER (15)			
1	Induction	Application of the Mines Standard Safety Code and the procedures pertaining to the trade, with special reference to— mine standards and procedures; the mine disciplinary code; the safety code; loss control; and the Manpower Training Act, 1981, and the relevant conditions of apprenticeship.	50
2	Safety	Safety applicable to the trade, with reference to— the safe handling and care of hand tools; noxious and flammable gases; liquids and gases under pressure; hot and molten metals; electrical apparatus and installations; machine protection; machine and pneumatic tools; grinding wheels; moving and overhead machinery; use of portable fire extinguishers; identification of relevant colour markings and symbolic safety signs in accordance with S.A.B.S. publications 0140 and 1186, respectively; safety precautions applicable to prohibited areas; safe handling of materials; and use and application of protective clothing.	50

Logbook symbol	Class of work	Practical training	Minimum instruction time per class of work in hours
3	First aid	Treatment for electric shock, heat-stroke and traumatic shock. Obtaining the Elementary First Aid Certificate.	50
4	Hand and workshop tools	Care and use of hand tools, such as— hammers; chisels; hacksaws; rules; tapes; squares; chalk lines; and centre punches. Making of workpieces using the techniques of— chipping; drilling; filing; and sawing. Using cutting compounds. Sharpening of— drills; chisels; and descaling equipment. Dressing, truing and mounting wheels and discs on grinding machines.	200
5	Drawings and sketches	Making of drawings and sketches. Reading and interpreting structural and engineering drawings, with special attention to welding symbols.	200
6	Marking off	Marking off from drawings and samples with the aid of— angle plates; bottle jacks; centre punch; dividers; marking off tables; protractors; rules; scribes; surface gauges; and vee blocks. Using measuring instruments and gauges.	200
7	Materials	Identifying materials used, with special attention to the different types of carbon steels and ferrous metals and their characteristics.	250
8	Gas cutting equipment	Assembling of equipment. Selecting correct nozzle. Selecting and setting of correct pressures for different material sizes using correct pressures for different material sizes using correct cutting speeds for different material thicknesses. Hand cutting of— straight lines; radii; bevels; profiles; angles; channels; joists; plates; and shafts.	350
9	Electric arc welding, including MIG and TIG	Selecting, assembling and care of arc welding equipment. Selecting correct shades of welding lenses. Selecting correct welding amperage for different electrode and material thickness. Care of welding electrodes. Striking and maintaining correct arc length and speed of travel, maintaining correct electrode angle. Recognising, controlling and preventing— cracking and distortion; lack of penetration; fusion reinforcement; undercut sections; blow holes; piping; porosity; and oxidation. Welding sequences when building up curved, round and flat surfaces. Making of ferrous and non-ferrous welded joints, e.g.— butt; corner; edge fillet; and lap welds in— down hand; vertical; horizontal; and overhead position. Preheating, post-heating and stress-relieving of different alloyed steels and annealing.	1 800
10	Gouging	Assembling and using gouging equipment. Using correct settings and angles and cutting speeds. Making weld preparations.	100
11	Oxy-acetylene welding equipment	Use, care and handling of equipment and cylinders. Assembling equipment. Selecting correct pressures and nozzles. Selecting rods and fluxes. Joint preparation. Metal control and fusion in— down hand; vertical; and horizontal positions. Brazing of ferrous and non-ferrous metals, e.g.— brass; cast iron; copper; malleable iron; and mild steel, in the down hand position.	
12	Special sections	Maintaining— crushing/milling plants; conveying systems; mobile equipment; winders; and refrigeration plant.	420

No. R. 2667

4 Desember 1987

WERKLOOSHEIDSVERSKERINGSWET, 1966

REGULASIES

Die onderstaande verbeterings van Goewermentskennisgewing R. 2412 wat in *Staatskoerant* 11014 van 30 Oktober 1987 verskyn, word vir algemene inligting gepubliseer:

1. Die woord "invalide" en die woord "invalid" waar dit in Aanhangsels UF 126 en UF 127 in die Afrikaanse en die Engelse tekse onderskeidelik voorkom, word geskrap.
2. Paragraaf B van Aanhangsel UF 126 word geskrap.
3. Item 4 (ii) van paragraaf C van Aanhangsel UF 126 word geskrap.

No. R. 2667

4 December 1987

UNEMPLOYMENT INSURANCE ACT, 1966

REGULATIONS

The following corrections to Government Notice R. 2412 appearing in *Government Gazette* 11014 of 30 October 1987, are published for general information:

1. The word "invalid" and the word "invalide" should be deleted where it appears in Annexures UF 126 and UF 127 in the English and Afrikaans text, respectively.
2. Paragraph B of Annexure UF 126 is deleted.
3. Item 4 (ii) of paragraph C of Annexure UF 126 is deleted.

DEPARTEMENT VAN POS- EN TELEKOMMUNIKASIEWESE

No. R. 2698

4 Desember 1987

POSREGULASIES

Die Minister van Binnelandse Sake en van Kommunikasie, handelende kragtens artikel 119A (1) van die Poswet, 1958 (Wet 44 van 1958), het die regulasies uitgevaardig wat in die Bylae vervat is.

BYLAE

1. Tensy uit die samehang anders blyk, beteken die uitdrukking "die Regulasies" in hierdie Bylae die Posregulasies afgekondig by Goewermentskennisgewing R. 550 van 14 April 1960, soos gewysig.
2. Regulasie 47 van die Regulasies word hierby gewysig deur in subregulasie (10) die uitdrukking "R4" deur die uitdrukking "R12" te vervang.
3. Regulasie 50 van die Regulasies word hierby gewysig deur in subregulasie (7) (a) die uitdrukking "R4" waar dit in die subregulasie voorkom deur die uitdrukking "R12" te vervang.
4. Hierdie regulasies tree op 1 Januarie 1988 in werking.

MINISTERIE VAN WET EN ORDE

No. R. 2701

4 Desember 1987

VERKLARING VAN DIE RAAD VIR GEESTES- WETENSKAPLIKE NAVORSING TOT 'N STATUTÊRE LIGGAAM

Kragtens die bevoegdheid verleen aan die Minister van Wet en Orde by artikel 1 van die Wet op Beheer van Toegang tot Openbare Persele en Voertuie, 1985 (Wet 53 van 1985), welke bevoegdheid ingevolge artikel 5 van die Wet aan my gedelegeer is, verklaar ek, Roelof Petrus Jansen van Vuuren, Senior Hoofafjunks-kommissaris van die Suid-Afrikaanse Polisie, hierby die Raad vir Geesteswetenskaplike Navorsing tot 'n statutêre liggaam vir doeleindes van die Wet.

Aldus geteken te Pretoria op die 3de dag van November 1987.

R. P. J. VAN VUUREN,

Senior Hoofafjunks-kommissaris van die Suid-Afrikaanse Polisie.

DEPARTMENT OF POSTS AND TELECOMMUNICATIONS

No. R. 2698

4 December 1987

POSTAL REGULATIONS

The Minister of Home Affairs and of Communications, acting under section 119A (1) of the Post Office Act, 1958 (Act 44 of 1958), has made the regulations contained in the Schedule.

SCHEDULE

1. In this Schedule, unless the context indicates otherwise, the expression "the Regulations" means the Postal Regulations promulgated under Government Notice R. 550 of 14 April 1960, as amended.
2. Regulation 47 of the Regulations is hereby amended by the substitution in subregulation (10) for the expression "R4" of the expression "R12".
3. Regulation 50 of the Regulations is hereby amended by the substitution in subregulation (7) (a) for the expression "R4" where it appears in the subregulation of the expression "R12".
4. These regulations shall come into operation on 1 January 1988.

MINISTRY OF LAW AND ORDER

No. R. 2701

4 December 1987

DECLARATION AS A STATUTORY BODY OF THE HUMAN SCIENCES RESEARCH COUNCIL

By virtue of the power vested in the Minister of Law and Order by section 1 of the Control of Access to Public Premises and Vehicles Act, 1985 (Act 53 of 1985), which power has been delegated to me in terms of section 5 of the Act, I, Roelof Petrus Jansen van Vuuren, Senior Chief Deputy-Commissioner of the South African Police, hereby declare the Human Sciences Research Council to be a statutory body for the purposes of the Act.

Signed at Pretoria this 3rd day of November 1987.

R. P. J. VAN VUUREN,

Senior Chief Deputy-Commissioner of the South African Police.

NOU BESKIKBAAR

VERSLAE VAN DIE APPÊLHOWE VIR KOMMISSARISHOWE

(In boekvorm)

1972-1974 (484 bladsye)

1975-1977 (338 bladsye)

Verkoopprys (AVB uitgesluit)

1972-1974: Plaaslik, R9,20; buitelandse, R10,90; posvry
1975-1977: Plaaslik, R7,40; buitelandse, R8,70; posvry

NOW AVAILABLE

REPORTS OF THE APPEAL COURTS FOR COMMISSIONERS' COURTS

(In book form)

1972-1974 (484 pages)

1975-1977 (338 pages)

Selling price (GST excluded)

1972-1974: Local, R9,20; other countries, R10,90; post free
1975-1977: Local, R7,40; other countries, R8,70; post free

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Help om ons land, Suid-Afrika,
skoon te hou!



Please keep our country, South
Africa, clean!

INHOUD

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