



STAATSKOERANT
VAN DIE REPUBLIEK VAN SUID-AFRIKA
REPUBLIC OF SOUTH AFRICA
GOVERNMENT GAZETTE

REGULASIEKOERANT No. 3447

REGULATION GAZETTE No. 3447

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PROKLAMASIE

van die Staatspresident van die Republiek van Suid-Afrika

No. R. 126, 1982

DATUM VAN INWERKINGTREDING VAN DIE WET OP GEASSOSIEERDE GESONDHEIDSDIENSBEROEPE, 1982

Kragtens die bevoegdheid my verleen by artikel 43 van die Wet op Geassosieerde Gesondheidsdiensberoep, 1982 (Wet 63 van 1982), verklaar ek hierby dat genoemde Wet in werking tree op 1 Augustus 1982.

Gegee onder my Hand en die Seël van die Republiek van Suid-Afrika te Pretoria, op hede die Agt-en-twintigste dag van Junie Eenduisend Negehonderd Twee-en-tagtig.

M. VILJOEN, Staatspresident.

Op las van die Staatspresident-in-rade:

L. A. P. A. MUNNIK.

PROCLAMATION

by the State President of the Republic of South Africa

No. R. 126, 1982

DATE OF COMMENCEMENT OF THE ASSOCIATED HEALTH SERVICE PROFESSIONS ACT, 1982

Under and by virtue of the powers vested in me by section 43 of the Associated Health Service Professions Act, 1982 (Act 63 of 1982), I hereby declare that the provisions of the said Act shall come into operation on 1 August 1982.

Given under my Hand and the Seal of the Republic of South Africa at Pretoria this Twenty-eighth day of June, One thousand Nine hundred and Eighty-two.

M. VILJOEN, State President.

By Order of the State President-in-Council:

L. A. P. A. MUNNIK.

GOEWERMENSKENNISGEWINGS

DEPARTEMENT VAN FINANSIES

No. R. 1491

16 Julie 1982

DOEANE- EN AKSYNSWET, 1964

BEPALINGS VAN TARIEFINDELING EN VERSTREKING DAARVAN OP KLARINGSBRIEWE (LYS TAR/57)

Die volgende wysigings van bepalings word kragtens artikel 47 (9) van die Doeane- en Aksynswet, 1964 (Wet 91 van 1964), gepubliseer.

D. ODENDAL, Kommissaris van Doeane- en Aksyns.

Opmerking.—Lys TAR/56 is in Goewermentskennisgewing R. 1435 van 9 Julie 1982 gepubliseer.

GOVERNMENT NOTICES

DEPARTMENT OF FINANCE

No. R. 1491

16 July 1982

CUSTOMS AND EXCISE ACT, 1964

DETERMINATIONS OF TARIFF CLASSIFICATION AND FURNISHING THEREOF ON BILLS OF ENTRY (LIST TAR/57)

The following amendments to determinations are published in terms of section 47 (9) of the Customs and Excise Act, 1964 (Act 91 of 1964).

D. ODENDAL, Commissioner for Customs and Excise.

Note.—List TAR/56 was published in Government Notice R. 1435 of 9 July 1982.

WYSIGINGS VAN GEPUBLISEERDE BEPALINGS

Beskrywing van goedere	Tariefpos/ -subpos	Bepaling No.
1. 'n Fout in die volgende bepaling word reggestel soos aangedui:		
Die volgende vervang die bestaande bepaling:		
Lift-off-korrigeerband vir die korrigeer van tikfoute—'n artikel van kunsplastiekstof, ingevoer met bykomstige spoel aangeheg en verpak in stelle, geskik vir gebruik in kantore	39.07.40	268
2. Wysigings van bepalinge as gevolg van wysigings van Deel I van Bylae No. 1 by die Doeane- en Aksynswet (Wet 91 van 1964):		
(i) Die volgende bepaling word ingetrek met ingang van 9 Januarie 1981:	84.45	134
(ii) Die volgende vervang die bestaande bepalinge met ingang van 9 Januarie 1981:		
Ficep model CGC grootte 100 DVA outomatiese skaafskêr—ander skeermasjien	84.45.65.65	3
Peddinghaus-betonstaafkroplemasjien—ander skeermasjien	84.45.65.65	15
Ficep Alligator-skrootskêr—ander skeermasjien	84.45.65.65	33
Hallden elektroniesbeheerde gesinkroniseerde duikskêr—ander skeermasjien	84.45.65.65	39
Nyloprint Weka-guillotine 500 vir letterdrukplate met 'n snylengte van 500 mm—ander skeermasjien	84.45.65.65	71
Adira hidrouliese plaatknipper tipe G.H.V.—'n skeermasjien van die guillotine-tipe, met 'n snylengte van meer as 1 000 mm maar hoogstens 4 150 mm	84.45.65.60	80
Mubea H50E-betonstaafsnymasjien—ander skeermasjien	84.45.65.65	118
Uni-Cropper UC-40-wapeningstaafsnymasjien—ander skeermasjien	84.45.65.65	148
Uni-Shear model 55-300—ander skeermasjien	84.45.65.65	149
High Speed Chopper, 'n masjien om draadrame en gaas mee te sny—ander skeermasjien	84.45.65.65	151
3. Wysigings van bepalinge kragtens artikel 47 (9) (d) van die Doeane- en Aksynswet (Wet 91 van 1964):		
(i) Die volgende vervang die bestaande bepalinge met ingang van 22 Junie 1982:		
Tumac Liftmaster mobiele tandratpassasier-/goederehystoestel—hysbak (elektries of hidroulies) met inbegrip van mynhysbak	84.22.45	99
Alimak Scando, enkelrigspoor tandrataangedrewe goedere-/passasiershystoestel—hysbak (elektries of hidroulies) met inbegrip van mynhysbak	84.22.45	178
Alimak Mini-Scando, enkelrigspoor tandrataangedrewe goedere-/passasiershystoestel—hysbak (elektries of hidroulies) met inbegrip van mynhysbak	84.22.45	179
Alimak Alivator, enkelrigspoor tandrataangedrewe goedere-/passasiershystoestel-hysbak (elektries of hidroulies) met inbegrip van mynhysbak	84.22.45	180
(ii) Bepaling No. 37 onder tariefpos 84.61 word ingetrek en vervang deur die volgende bepaling met ingang van 30 Junie 1982:		
P.30 E Hidrotobehoorsel, synde 'n verstelbare draaipoelinlaat vir masseerbaddens—ander artikel van kunsplastiekstof, ander	39.07.90.90	323
(iii) Die volgende vervang die bestaande bepaling met ingang van 16 Julie 1982:		
Mason-monteerkuissings tipes N, ND, W, WMW, WML, WM en NK—artikels van onverharde gevulkaniseerde rubber uitkenbaar as integrale onderdele van industriële masjinerie	40.14.80	86
(iv) Bepaling Nos. 11 en 18 onder tariefpos 85.11 word ingetrek en vervang deur die volgende bepalinge met ingang van 16 Julie 1982:		
Juno Convectomats—elektriese verhitingsstoerusting van 'n soort deur die verversingsbedryf gebruik	84.17.20	177
Juno Convectomat serie 2000-oonde—elektriese verhitingsstoerusting van 'n soort deur die verversingsbedryf gebruik	84.17.20	178
(v) Bepaling No. 38 onder tariefpos 84.53 word ingetrek en vervang deur die volgende bepaling met ingang van 16 Julie 1982:		
Giddings en Lewis-Fraser Numeriset met geheue, syferkontrolle, vir gebruik met horisontale uitboor-, frees- en boormasjiene—'n beheerpaneel, ander	85.19.90	136
(vi) Bepaling No. 61 onder tariefpos 84.30 word ingetrek en vervang deur die volgende bepaling met ingang van 16 Julie 1982:		
Stimulizer lae volt 4.7.1., gebruik in die vleisnywerheid om karkasse deur middel van 'n elektriese stroom te versag—'n elektriese toestel wat 'n afsonderlike funksie het, ander	85.22.90	266

AMENDMENTS TO PUBLISHED DETERMINATIONS

Description of goods	Tariff heading/ subheading	Determination No.
1. An error in the following determination is corrected as indicated:		
The following is substituted for the existing determination:		
Lift-off correcting tape for correcting typing errors—an article of artificial plastic material, imported with additional spool attached and packed in sets, suitable for use in offices	39.07.40	268
2. Amendments to determinations resulting from amendments to Part 1 of Schedule No. 1 to the Customs and Excise Act (Act 91 of 1964):		
(i) The following determination is withdrawn with effect from 9 January 1981:	84.45	134
(ii) The following are substituted for the existing determinations with effect from 9 January 1981:		
Ficep model CGC size 100 DVA automatic bar shear—other shearing machine	84.45.65.65	3
Peddinghaus concrete reinforcing steel bar cropping machine—other shearing machine	84.45.65.65	15
Ficep Alligator scrap shear—other shearing machine	84.45.65.65	33
Hallden electronically controlled synchronised flying shear—other shearing machine	84.45.65.65	39
Nyloprint Weka Guillotine 500 for letterpress plates with a cutting length of 500 mm—other shearing machine	84.45.65.65	71
Adira hydraulic plate shear type G.H.V.—a shearing machine of the guillotine type, with a cutting length exceeding 1 000 mm but not exceeding 4 150 mm	84.45.65.60	80
Mubea H50E concrete reinforcing rod cutting machine—other shearing machine	84.45.65.65	118
Uni-Cropper UC-40 reinforcing bar cropping machine—other shearing machine	84.45.65.65	148
Uni-Shear model 55-300—other shearing machine	84.45.65.65	149
High Speed Chopper, a machine for cutting wire frames and shearing gauze—other shearing machine	84.45.65.65	151
3. Amendments to determinations in terms of section 47 (9) (d) of the Customs and Excise Act (Act 91 of 1964):		
(i) The following are substituted for the existing determinations with effect from 22 June 1982:		
Tumac Liftmaster mobile rack and pinion passenger/goods hoist—lift (electrical or hydraulic) including skip hoist	84.22.45	99
Alimak Scando, single guide rail rack and pinion driven goods/passenger hoist—lift (electrical or hydraulic) including skip hoist	84.22.45	178
Alimak Mini-Scando, single guide rail rack and pinion driven goods/passenger hoist—lift (electrical or hydraulic) including skip hoist	84.22.45	179
Alimak Alivator, single guide rail rack and pinion driven goods/passenger hoist—lift (electrical or hydraulic) including skip hoist	84.22.45	180
(ii) Determination No. 37 under tariff heading 84.61 is withdrawn and replaced by the following determination with effect from 30 June 1982:		
P.30 E Hydro fitting, being an adjustable whirlpool inlet for massage baths—other article of artificial plastic material, other	39.07.90.90	323
(iii) The following is substituted for the existing determination with effect from 16 July 1982:		
Mason mount pads types N, ND, W, WMW, WML, WM and NK—articles of unhardened vulcanised rubber identifiable as integral parts of industrial machinery	40.14.80	86
(iv) Determination Nos. 11 and 18 under tariff heading 85.11 are withdrawn and replaced by the following determinations with effect from 16 July 1982:		
Juno Convectomats—electrical heating equipment of a kind used in the catering industry	84.17.20	177
Juno Convectomat series 2000 ovens—electrical heating equipment of a kind used in the catering industry	84.17.20	178
(v) Determination No. 38 under tariff heading 84.53 is withdrawn and replaced by the following determination with effect from 16 July 1982:		
Giddings and Lewis-Fraser Numeriset with memory, numerically controlled, for use with horizontal boring, milling and drilling machines—a control panel, other	85.19.90	136
(vi) Determination No. 61 under tariff heading 84.30 is withdrawn and replaced by the following determination with effect from 16 July 1982:		
Stimulizer low voltage 4.7.1., used in the meat industry to tenderize carcasses by means of an electric current—an electric appliance having an individual function, other	85.22.90	266

DEPARTEMENT VAN GESONDHEID EN WELSYN

No. R. 1464

16 Julie 1982

WET OP DIE BEHEER VAN MEDISYNE EN VERWANTE STOWWE, 1965

Die Medisynbeheerraad het, kragtens die bevoegdheid hom verleen by artikel 14 (2) van die Wet op die Beheer van Medisyne en Verwante Stowwe, 1965 (Wet 101 van 1965), by besluit deur die Minister van Gesondheid en Welsyn goedgekeur, bepaal dat antistoloplossings wat vir bloedoortappings gebruik word, met ingang van die datum van publikasie van hierdie kennisgewing, kragtens genoemde Wet onderworpe is aan registrasie as medisyne wat resorteer onder farmakologiese klassifikasie 8.2 van Kategorie A in regulasie 4 (a) van die regulasies wat kragtens genoemde Wet uitgevaardig is.

DEPARTEMENT VAN LANDBOU EN VISSERYE

No. R. 1481

16 Julie 1982

TARIEWE.—SPRINGS NASIONALE VARSPRODUKTEMARK

Hierby word bekendgemaak dat die Minister van Landbou en Visserye, kragtens die bevoegdheid hom verleen by artikel 19 van die Wet op die Kommissie vir Varsprodukte-marke, 1970 (Wet 82 van 1970), die voorskrifte in die Bylae hiervan uiteengesit, gemaak het.

BYLAE

1. In hierdie kennisgewing, tensy uit die samehang anders blyk, het 'n woord of uitdrukking waaraan in die Wet op die Kommissie vir Varsprodukte-marke, 1970 (Wet 82 van 1970), 'n betekenis geheg is, 'n ooreenstemmende betekenis en beteken—

“week”, met betrekking tot die koelopberging van varsprodukte of ander artikels in koelkamers en die rypmaak van varsprodukte in rypmaakkamers, enige aaneenlopende tydperk van sewe dae wat 'n aanvang neem op en met inbegrip van die dag waarop sodanige varsprodukte in 'n koel- of rypmaakkamer geplaas word.

2. Die volgende tariewe is betaalbaar aan die Stadsraad van Springs as eienaar van die Springs Nasionale Varsprodukte-mark geleë op die hoek van Hoofrifweg-Suid en Angellaan, Springs-uitbreiding, binne die munisipale gebied van Springs, ten opsigte van die gebruik van, of die verrigting van dienste by genoemde mark:

Item 1.—Tarief vir die gebruik van hanteringstoerusting:

- (a) Huur van stootkarretjies (Huisvroutipe) per dag of gedeelte van 'n dag: 25c.
- (b) Huur van trekwaentjies (Handelaarstipe) per dag of gedeelte van 'n dag: 50c.

Item 2.—Tariewe vir die opberging van varsprodukte of ander artikels:

(a) Opberging van varsprodukte of ander artikels (uitgesonderd piesangs) in koelkamers en die rypmaak van varsprodukte in rypmaakkamers per week of gedeelte van 'n week soos hieronder aangedui: Met dien verstande dat die tarief nie minder as R1,20 per besending per week of gedeelte van 'n week sal wees nie:

(i) Verpak in houers (behalwe sakke of sakkies) waarvan die grootte per kubieke sentimeter bereken sal word, welke berekening op die buitemate van die houers gebaseer sal word:

- (aa) 2c per houer van nie meer as 15 000 cm³ nie;
- (bb) 3c per houer van meer as 15 000 cm³ maar nie meer as 20 000 cm³ nie;

DEPARTMENT OF HEALTH AND WELFARE

No. R. 1464

16 July 1982

MEDICINES AND RELATED SUBSTANCES CONTROL ACT, 1965

The Medicines Control Council has, by virtue of the powers vested in it by section 14 (2) of the Medicines and Related Substances Control Act, 1965 (Act 101 of 1965), by resolution approved by the Minister of Health and Welfare, determined that anticoagulant solutions used for blood transfusion be subject to registration in terms of the said Act as medicines classified under pharmacological classification 8.2 of Category A in regulation 4 (a) of the regulations promulgated in terms of the said Act, with effect from the date of publication of this notice.

DEPARTMENT OF AGRICULTURE AND FISHERIES

No. R. 1481

16 July 1982

TARIFFS.—SPRINGS NATIONAL FRESH PRODUCE MARKET

It is hereby made known that the Minister of Agriculture and Fisheries has, under the powers vested in him by section 19 of the Commission for Fresh Produce Markets Act, 1970 (Act 82 of 1970), made the requirements set out in the Schedule hereto.

SCHEDULE

1. In this notice, unless inconsistent with the context, any word or expression to which a meaning has been assigned in the Commission for Fresh Produce Markets Act, 1970 (Act 82 of 1970), shall have a corresponding meaning and—

“week”, in relation to the storage of fresh produce or other articles in cold-storage rooms and the ripening of fresh produce in ripening rooms, means any continuous period of seven days commencing on and including the day on which such fresh produce is placed in a cold-storage or ripening room.

2. The following tariffs shall be payable to the City Council of Springs as owner of the Springs National Fresh Produce Market situated at the corner of Main Reef Road South and Angel Avenue, Springs Extension, within the municipal area of Springs, in respect of the use of, or the performance of services at the said market.

Item 1.—Tariffs for the use of handling equipment:

- (a) Hiring of barrows (Housewife's type) per day or part of a day: 25c.
- (b) Hiring of barrows (Trader's type) per day or part of a day: 50c.

Item 2.—Tariffs for the storage of fresh produce or other articles:

(a) Storage of fresh produce or other articles (excluding bananas) in cold-storage rooms and the ripening of fresh produce in ripening rooms per week or part of a week as indicated hereunder: Provided that the tariffs shall not be less than R1,20 per consignment per week or part of a week:

(i) Packed into containers (other than bags or pockets), the size of which shall be calculated per cubic centimetre and such calculation shall be based on the outer dimensions of the container:

- (aa) 2c per container not exceeding 15 000 cm³;
- (bb) 3c per container exceeding 15 000 cm³ but not exceeding 20 000 cm³;

- (cc) 4c per houer van meer as 20 000 cm³ maar nie meer as 40 000 cm³ nie;
- (dd) 6c per houer van meer as 40 000 cm³ maar nie meer as 60 000 cm³ nie;
- (ee) 7c per houer van meer as 60 000 cm³ maar nie meer as 80 000 cm³ nie;
- (ff) 20c per houer van meer as 80 000 cm³ maar nie meer as 100 000 cm³ nie;
- (gg) 50c per houer van meer as 100 000 cm³ maar nie meer as 500 000 cm³ nie;
- (hh) R1,25 per houer van meer as 500 000 cm³.

(ii) Verpak in sakke of sakkies of soortgelyke houters:

- (aa) 2c per sak of sakkie met 'n netto massa van nie meer as 6 kg nie;
- (bb) 3c per sak of sakkie met 'n netto massa van meer as 6 kg, maar nie meer as 11 kg nie;
- (cc) 4c per sak of sakkie met 'n netto massa van meer as 11 kg maar nie meer as 16 kg nie;
- (dd) 10c per sak of sakkie met 'n netto massa van meer as 16 kg maar nie meer as 36 kg nie;
- (ee) 30c per sak of sakkie van meer as 36 kg.

(iii) Onverpakte los varsprodukte of ander artikels: 20c per eenheid.

Dubbel die tariewe vasgestel in item 2 (a) (i), (ii), (iii) en (c) sal betaalbaar wees ten opsigte van koelopberging of rypmaking van varsprodukte of ander artikels wat nie op die mark gekoop is nie of nie deur die mark verkoop word nie: Met dien verstande dat sodanige dubbeltariewe nie van toepassing sal wees in die geval van sodanige soorte produkte of artikels wat nie gewoonlik op die mark verkoop word nie.

(b) Varsprodukte verkoop en nie teen 14h00 op die dag van aankoop daarvan van die marksaal verwyder nie: 5 persent van verkoopprijs. (Betaalbaar deur koper.)

(c) Indien varsprodukte of ander artikels deur munisipale personeel vir koelopberging of rypmaakdoeleindes op palette geplaas word: 1c per houer, sak, sakkie of eenheid van onverpakte produkte bo en behalwe die tariewe vir koelopberging- of rypmaakdoeleindes soos hierbo vasgestel.

Item 3.—Algemene tariewe:

Verskaffing deur markowerheid van verkoopstrokie tesame met afskrifte daarvan: 2c per stel.

Diverse bepalinge

3. Hierdie kennisgewing tree in werking op 1 Augustus 1982 en herroep Goewermentskennisgewing R. 1527 van 13 Julie 1979 en Goewermentskennisgewing R. 448 van 14 Maart 1980 met ingang van dieselfde datum.

No. R. 1492

16 Julie 1982

ALGEMENE HEFFING OP SLAGVEE

Ingevolge artikel 46A van die Bemarkingswet, 1968 (Wet 59 van 1968), maak ek, Pieter Theunis Christiaan du Plessis, Minister van Landbou en Visserye, hiermee bekend dat ek, kragtens die bevoegdheid my verleen by genoemde artikel 46A van genoemde Wet die algemene heffing in die Bylae hiervan uiteengesit opgelê het ter vervanging van die algemene heffing afgekondig by Goewermentskennisgewing R. 2215 van 31 Oktober 1980.

P. T. C. DU PLESSIS, Minister van Landbou en Visserye.

- (cc) 4c per container exceeding 20 000 cm³ but not exceeding 40 000 cm³;
- (dd) 6c per container exceeding 40 000 cm³ but not exceeding 60 000 cm³;
- (ee) 7c per container exceeding 60 000 cm³ but not exceeding 80 000 cm³;
- (ff) 20c per container exceeding 80 000 cm³ but not exceeding 100 000 cm³;
- (gg) 50c per container exceeding 100 000 cm³ but not exceeding 500 000 cm³;
- (hh) R1,25 per container exceeding 500 000 cm³.

(ii) Packed into bags or pockets or similar containers:

- (aa) 2c per bag or pocket with a net mass not exceeding 6 kg;
- (bb) 3c per bag or pocket with a net mass exceeding 6 kg, but not exceeding 11 kg;
- (cc) 4c per bag or pocket with a net mass exceeding 11 kg but not exceeding 16 kg;
- (dd) 10c per bag or pocket with a net mass exceeding 16 kg but not exceeding 36 kg;
- (ee) 30c per bag or pocket exceeding 36 kg.

(iii) Unpacked loose fresh produce or other articles: 20c per unit.

Double the tariffs fixed in item 2 (a) (i), (ii), (iii) and (c) shall be payable in respect of cold storage or ripening of fresh produce or other articles not purchased on the market or sold through the market: Provided that such double tariffs shall not apply in respect of such types of produce or articles which are not normally sold on the market.

(b) Fresh produce sold and not removed from the market hall by 14h00 on the day of purchase thereof: 5 per cent of purchase price. (Payable by purchaser.)

(c) If fresh produce or other articles are to be placed on pallets by municipal personnel for purposes of cold-storage or ripening: 1c per container, bag, pocket or unit of unpacked produce in addition to the tariffs fixed above for purposes of cold-storage or ripening.

Item 3.—General tariffs.

Supplying by market authority of sales dockets together with copies thereof: 2c per set.

Miscellaneous provisions

This notice shall come into operation on 1 August 1982 and repeals Government Notice R. 1527 of 13 July 1979 and Government Notice R. 448 of 14 March 1980 with effect from the same date.

No. R. 1492

16 July 1982

GENERAL LEVY ON SLAUGHTER ANIMALS

In terms of section 46A of the Marketing Act, 1968 (Act 59 of 1968), I, Pieter Theunis Christiaan du Plessis, Minister of Agriculture and Fisheries, hereby make known that I have, under the powers vested in me by the said section 46A of the said Act, imposed the general levy set out in the Schedule hereto in substitution of the general levy, published by Government Notice R. 2215 of 31 October 1980.

P. T. C. DU PLESSIS, Minister of Agriculture and Fisheries.

BYLAE

1. In hierdie kennisgewing, tensy uit die samehang anders blyk, het 'n woord of uitdrukking waaraan 'n betekenis geheg is in die Vee- en Vleisreëlinskema, afgekondig by Proklamasie R. 200 van 1964, soos gewysig, 'n ooreenstemmende betekenis en beteken—

“beheerde gebied” die gebied wat die Vleisraad, ingestel by artikel 3 van die genoemde Vee- en Vleisreëlinskema, van tyd tot tyd by die toepassing van artikel 15 (m) van daardie Skema omskryf;

“eienaar” die eienaar soos omskryf, in artikel 1 van die Wet op Abattoirbedryf, 1976 (Wet 54 van 1976);

“bok” ook 'n boklam;

“kalf” 'n bees waarvan geen gedeelte van 'n vierde kies-tand in die bokaak deur die tandvleis gebreek het nie;

“skaap” ook 'n lam; en

“vark” ook 'n speenvark.

2. 'n Algemene heffing teen die koers hieronder uiteengesit word hierby opgelê op alle beeste, kalwers, skape, bokke en varke wat by enige abattoir of slagpale geslag word welke algemene heffing betaalbaar is deur die eienaar van sodanige abattoir of slagpale:

KOERS VAN ALGEMENE HEFFING

	Beheerde gebiede	Buite gebied
	c per kg	c per karkas
(a) Beeste.....	0,045	9
(b) Kalwers.....	0,045	2
(c) Skape en bokke.....	0,060	1
(d) Varke.....	0,030	2

Met dien verstande dat breuke van 'n sent aangepas moet word tot die daaropvolgende volle sent.

3. Die eienaar van 'n abattoir of slagpale kan die bedrag van die algemene heffing verhaal van die eienaar van die slagvee ten opsigte waarvan die algemene heffing betaalbaar is.

4. Hierdie kennisgewing tree in werking op die datum van publikasie daarvan en herroep Goewermentskennisgewing R. 2215 van 31 Oktober 1980 met ingang vanaf dieselfde datum.

DEPARTEMENT VAN MANNEKRAG

No. R. 1461

16 Julie 1982

WET OP MANNEKRAGOPLEIDING, 1981

NASIONALE MANNEKRAGOPLEIDINGSKOMITEE
VIR DIE MOTORNYWERHEID.—INTREKKING EN
VOORSKRYWING VAN LEERVOORWAARDES

Ek, Stephanus Petrus Botha, Minister van Mannekrag, handelende kragtens artikel 13 van bogemelde Wet—

(a) trek hierby Goewermentskennisgewing R. 1500 van 24 Augustus 1973 (soos toegepas by Goewermentskennisgewing R. 2156 van 16 November 1973), soos gewysig by Goewermentskennisgewings R. 124 van 25 Januarie 1974, R. 60 van 10 Januarie 1975), R. 546 van 21 Maart 1975 (soos toegepas by Goewermentskennisgewing R. 946 van 16 Mei 1975), R. 1380 van 18 Julie 1975 (soos toegepas by Goewermentskennisgewing R. 1676 van 29 Augustus 1975), R. 473 van 25 Maart 1977 (soos toegepas by Goewermentskennisgewing R. 783 van 6 Mei 1977), R. 895 van 28 April 1978 (soos toegepas by Goewermentskennisgewing R. 1254 van 16 Junie 1978), R. 778 van 11 April 1980 (soos toegepas by Goewermentskennisgewing R. 1256 van 20 Junie 1980), R. 182 van 6 Februarie 1981 (soos toegepas by

SCHEDULE

1. In this notice, unless inconsistent with the context, any word or expression to which a meaning has been assigned in the Livestock and Meat Control Scheme, published by Proclamation R. 200 of 1964, as amended, shall have a corresponding meaning and—

“calf” means a bovine animal of which no part of a fourth molar in the upper jaw has erupted through the gum;

“controlled area” means the area which the Meat Board, established by section 3 of the said Livestock and Meat Control Scheme, from time to time defines for the purposes of section 15 (m) of the said Scheme;

“goat” includes a kid;

“owner” means the owner as defined in section 1 of the Abattoir Industries Act, 1976 (Act 54 of 1976);

“pig” includes a sucking pig; and

“sheep” includes a lamb.

2. A general levy at the rate set out hereunder is hereby imposed on all cattle, calves, sheep, goats and pigs slaughtered at any abattoir or slaughter pole which general levy shall be payable by the owner of such abattoir or slaughter pole:

RATE OF GENERAL LEVY

	Controlled areas	Outside area
	c per kg	c per animal
(a) Cattle	0,045	9
(b) Calves	0,045	2
(c) Cheep and goats.....	0,060	1
(d) Pigs	0,030	2

Provided that fractions of a cent shall be adjusted to the ensuing full cent.

3. The owner of the abattoir or slaughter pole may recover the amount of the general levy from the owner of the slaughter animals in respect of which the general levy is payable.

4. This notice shall come into operation on the date of publication thereof and repeals Government Notice R. 2215 of 31 October 1980, with effect from the same date.

DEPARTMENT OF MANPOWER

No. R. 1461

16 July 1982

MANPOWER TRAINING ACT, 1981

NATIONAL MANPOWER TRAINING COMMITTEE
FOR THE MOTOR INDUSTRY.—WITHDRAWAL AND
PRESCRIPTION OF CONDITIONS OF APPRENTICESHIP

I, Stephanus Petrus Botha, Minister of Manpower, acting in terms of section 13 of the above-mentioned Act, hereby—

(a) withdraw Government Notice R. 1500 of 24 August 1973 (as applied by Government Notice R. 2156 of 16 November 1973), as amended by Government Notices R. 124 of 25 January 1974, R. 60 of 10 January 1975, R. 546 of 21 March 1975 (as applied by Government Notice R. 946 of 16 May 1975), R. 1380 of 18 July 1975 (as applied by Government Notice R. 1676 of 29 August 1975), R. 473 of 25 March 1977 (as applied by Government Notice R. 783 of 6 May 1977), R. 895 of 28 April 1978 (as applied by Government Notice R. 1254 of 16 June 1978), R. 778 of 11 April 1980 (as applied by Government Notice R. 1256 of 20 June 1980), R. 182 of 6 February 1981 (as applied by Government Notice R.

Goewermentskennisgewing R. 716 van 3 April 1981) en R. 1672 van 7 Augustus 1981 (soos toegepas by Goewermentskennisgewing R. 2302 van 30 Oktober 1981), in met ingang van die derde Maandag na die datum van publikasie van hierdie kennisgewing: Met dien verstande dat klousule 2 (1) en (2), 8 betreffende leertyd en die opleidingskursusse wat in paragraaf (a) van Goewermentskennisgewing R. 1500 van 24 Augustus 1973 (soos toegepas by Goewermentskennisgewing R. 2156 van 16 November 1973) en Goewermentskennisgewing R. 778 van 11 April 1980 (soos toegepas by Goewermentskennisgewing R. 1256 van 20 Junie 1980) voorgeskryf word, van toepassing bly op die volgende ambagte:

Bekleder;
Bekleder (insluitend spuitverfwerk);
Brandstofinspuitwerktuigkundige;
Gereedskap en setmaatmaker;
Gereedskap en stempelmaker;
Houtmasjineerder;
Landboumasjineriewerktuigkundige;
Motorasetileen- en Elektriese Sweiser;
Motorplaatmetaalwerker;
Motorvoertuigdraaier en -masjineerder;
Motorvoertuigmasjineerder en -passer;
Paneelklopper (insluitende bekleding); en
Paneelklopper (insluitende spuitverfwerk),

wat aangewese ambagte was voor die datum van inwerkingtreding van die leervooraardes hieronder uiteengesit, en ook op daardie vakleerlinge wie se vakleerling-skapkontrakte aangegaan is voor die inwerkingtreding van hierdie leervooraardes;

(b) wys hierby, met ingang van die derde Maandag na die datum van publikasie van hierdie kennisgewing, die ondergemelde ambagte aan as ambagte ten opsigte waarvan die Wet van toepassing is vir die Motornywerheid in die Republiek van Suid-Afrika:

AMBAGTE

1. Brandstofinspuitwerktuigkundige; (8)
2. Dieselwerktuigkundige; (6)
3. Gereedskap, setmaat- en stempelmaker; (12)
4. Motorfiets- en bromponiewerktuigkundige; (9)
5. Motorvoertuigbakhersteller; (1)
6. Motorvoertuigbekleder; (5)
7. Motorvoertuigelektrisiën; (2)
8. Motorvoertuigenjinmonteur; (3)
9. Motorvoertuigmasjienwerker; (4)
10. Motorwerktuigkundige; (10)
11. Passer en draaier; (7)
12. Spuitverwer; (11)
13. Trekker- en Landboumasjineriewerktuigkundige; (13)
14. Trekkerwerktuigkundige; (14) en
15. Voertuigbakbouer (15);

(c) skryf hierby, met ingang van die derde Maandag na die datum van publikasie van hierdie kennisgewing, ondergenoemde Leervooraardes voor as leervooraardes ten opsigte van die ambagte gespesifiseer in paragraaf (b) gemeld in die Nywerheid en gebied daarin gemeld; en

(d) bepaal dat die bepalings van klousules 2 (3), 3, 4, 5, 6, 7 en 9 van ondergenoemde Leervooraardes, met ingang van die derde Maandag na die datum van publikasie daarvan, ook van toepassing is op vakleerlinge wat in diens is in enige ambag wat 'n aangewese ambag is of was in die Motornywerheid in die Republiek van Suid-Afrika.

S. P. BOTHA, Minister van Mannekrag.

716 of 3 April 1981) and R. 1672 of 7 August 1981 (as applied by Government Notice R. 2302 of 30 October 1981), with effect from the third Monday after the date of publication of this notice: Provided that clauses 2 (1) and (2), 8, in respect of period of apprenticeship, and the courses of training prescribed in paragraph (a) of Government Notice R. 1500 of 24 August 1973 (as applied by Government Notice R. 2156 of 16 November 1973) and Government Notice R. 778 of 11 April 1980 (as applied by Government Notice R. 1256 of 20 June 1980), shall continue to apply in respect of the following trades:

Agricultural Machinery Mechanic;
Automotive Acetylene and Electrical Welder;
Automotive Sheet Metal Worker;
Automotive Turner and Machinist;
Automotive Machinist and Fitter;
Fuel Injection Mechanic;
Panelbeater (including spraypainting);
Panelbeater (including trimming);
Tool and Die Maker;
Tool and Jig Maker;
Trimmer;
Trimmer (including spraypainting); and
Woodmachinist,

which were designated trades before the date of coming into operation of the Conditions of Apprenticeship set out hereunder, and shall continue to apply to those apprentices whose contracts of apprenticeship were entered into before the coming into operation of these conditions;

(b) designate for the Motor Industry in the Republic of South Africa 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. Automotive Body Repairer; (5)
2. Automotive Electrician; (7)
3. Automotive Engine Fitter; (8)
4. Automotive Machinist; (9)
5. Automotive Trimmer; (6)
6. Diesel Mechanic; (2)
7. Fitter and Turner; (11)
8. Fuel Injection Pump Mechanic; (1)
9. Motor Cycle and Scooter Mechanic; (4)
10. Motor Mechanic; (10)
11. Spraypainter; (12)
12. Tool, Jig and Die Maker; (3)
13. Tractor and Agricultural Machinery Mechanic; (13)
14. Tractor Mechanic; (14) and
15. Vehicle Body Builder (15);

(c) prescribe with effect from the third Monday after the date of publication of this notice the conditions of apprenticeship set out hereunder in respect of the trades specified in paragraph (b) in the Industry and area therein mentioned; and

(d) determine that the provisions of clauses 2 (3), 3, 4, 5, 6, 7 and 9 of the Conditions set out hereunder shall with effect from the third Monday after the date of publication thereof also apply to apprentices who are employed in any trade which is or was a designated trade in the Motor Industry in the Republic of South Africa.

S. P. BOTHA, Minister of Manpower.

LEERVOORWAARDES

1. KWALIFIKASIES OM MET VAKLEERLINGSKAP TE BEGIN

Die minimum ouderdom en opvoedkundige kwalifikasies om met vakleerlingskap te begin, is 16 jaar en—

(1) standerd VII ten opsigte van die aangewese ambagte:

Motorvoertuigbakhersteller;
Motorvoertuigbekleder;
Spuiterverwer; en
Voertuigbakbouer;

(2) standerd VIII ten opsigte van alle ander aangewese ambagte; of 'n verklaring van prestasie uitgereik deur of namens die skool wat deur die voornemende vakleerling besoek is, waarin verklaar word dat hy geslaag het op die standerd VII-peil ten opsigte van die ambagte in paragraaf (1) genoem, en op die standerd VIII-peil in die geval van al die ander aangewese ambagte in die vakke Afrikaans, Engels, Wiskunde en minstens een ander vak.

2. LEERTYD

(1) Behoudens subklousule (3) is die leertyd van 'n vakleerling wie se kontrak *voor* die datum van inwerkingtreding van hierdie Leervooraardes geregistreer is soos volg:

(a) Drie jaar in die aangewese ambag Brandstofinspuitwerktuigkundige;

(b) vier jaar in die aangewese ambagte Bekleder, Houtmasjineerder, Motorfiets- en Bromponiewerktuigkundige en Spuitverfwerker; en

(c) vyf jaar in alle ander aangewese ambagte.

(2) Behoudens subklousule (3) is die leertyd van 'n vakleerling wie se kontrak *op die datum van of na* die inwerkingtreding van hierdie leervooraardes geregistreer is soos volg:

(a) Drie jaar in die aangewese ambagte Brandstofinspuitpompwerktuigkundige, Motorvoertuigbekleder en Spuitverwer; en

(b) vier jaar in alle ander aangewese ambagte:

Met dien verstande dat die leertyd ingevolge klousule 8 (2) (c) verleng word indien 'n vakleerling nie in 'n kwalifiserende vaktoets in die praktyk van die ambag waarvoor hy ingeboek is, slaag nie.

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

(i) agt maande van 'n eerste tydperk van 24 maande of langer; of

(ii) ses maande van 'n eerste tydperk van 18 maande; of

(iii) vier maande 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 opleiding of diens ingevolge artikel 34A (3) van die Polisiewet, 1958 (Wet 7 van 1958), ondergaan of gedoen het word verkort met 'n tydperk van hoogstens—

(i) in die geval van opleiding of diens ingevolge artikel 34A (11) van die genoemde Wet—

(aa) agt maande van 'n eerste tydperk van 24 maande; of

(ab) vier maande van 'n eerste tydperk van 12 maande; en

CONDITIONS OF APPRENTICESHIP

1. QUALIFICATIONS FOR COMMENCING APPRENTICESHIP

The minimum age and educational qualifications for commencing apprenticeship shall be 16 years and—

(1) Standard VII in respect of the designated trades:

Automotive Body Repairer;
Automotive Trimmer;
Spraypainter; and
Vehicle Body Builder;

(2) Standard VIII in respect of all other designated trades; or a statement of attainment issued by or on behalf of the school attended by the prospective apprentice reflecting a pass at Standard VII level in respect of the trades mentioned in paragraph (1) and at Standard VIII level in the case of all other designated trades, in the subjects Afrikaans, English, Mathematics and at least one other subject.

2. PERIOD OF APPRENTICESHIP

(1) Subject to subclause (3) the period of apprenticeship of an apprentice whose contract was registered *before* the date on which these Conditions become effective:

(a) Three years in the designated trade Fuel Injection Mechanic;

(b) four years in the designated trades Motor Cycle and Scooter Mechanic, Spraypainter, Trimmer and Wood-machinist; and

(c) five years in all other designated trades.

(2) Subject to subclause (3) the period of apprenticeship of an apprentice whose contract is registered *on or after* the date on which these Conditions become effective shall be as follows:

(a) Three years in the designated trades Automotive Trimmer, Fuel Injection Pump Mechanic and Spraypainter; and

(b) four years in all other designated trades:

Provided that the period of apprenticeship shall be extended in terms of clause 8 (2) (c) if an apprentice does not pass a qualifying trade test in the practice of the trade in which he has been indentured.

(3) (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 of a first period of 24 months or longer; or

(ii) six months of a first period of 18 months; or

(iii) four months 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 an 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 of a first period of 24 months; or

(ab) four months of a first period of 12 months; and

(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 bepalings van paragrafe (a) of (b) is 'n vakleerling nie geregtig nie op 'n verkorting van sy leertyd ingevolge paragrafe (a) (iv) en (b) (i) (ac) van meer as—

(i) 60 dae ten opsigte van opleiding of diens, ingevolge paragraaf (a) of (b), voor sy leertyd, waar sy voorgeskrewe leertyd nie meer as drie jaar is nie;

(ii) 90 dae ten opsigte van opleiding of diens, ingevolge paragraaf (a) of (b), voor sy leertyd, waar sy voorgeskrewe leertyd meer as drie jaar is, maar nie meer as vier jaar is nie; of

(iii) 120 dae ten opsigte van opleiding of diens, ingevolge paragraaf (a) of (b), voor sy leertyd, waar sy voorgeskrewe leertyd meer as vier jaar is.

(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 artikel 34A (3) van die Polisie wet, 1958.

(e) Die werkgever van 'n vakleerling in paragraaf (a) of (b) bedoel moet die sekretaris van die betrokke onderkomitee binne sewe dae na die vakleerling se vertrek vir opleiding of diens ingevolge die Verdedigingswet, 1957, of artikel 34A (3) van die Polisie wet, 1958, in kennis stel van sodanige vertrek en, insgelyks, binne sewe dae na die vakleerling se terugkeer van sodanige opleiding of diens.

3. LONE

(1) 'n Werkgever moet 'n vakleerling *weekliks* besoldig teen minstens die skale hieronder uiteengesit:

(a) 'n Vakleerling wie se kontrak *voor* die datum van inwerkingtreding van hierdie leervooraardes geregistreer is:

(i) In die ambag Brandstofinspuitwerktuigkundige:	R
Eerste jaar	69
Tweede jaar	78
Derde jaar	119
(ii) In vierjaarambagte:	
Eerste jaar	69
Tweede jaar	78
Derde jaar	88
Vierde jaar	119
(iii) In vyfjaarambagte:	
Eerste jaar	69
Tweede jaar	78
Derde jaar	88
Vierde jaar	119
Vyfde jaar	119

(b) 'n Vakleerling wie se kontrak *op of na* die datum van inwerkingtreding van hierdie leervooraardes geregistreer is:

(i) In driejaarambagte:	R
Eerste jaar	69
Tweede jaar	88
Derde jaar	119
(ii) In vierjaarambagte:	
Eerste jaar	69
Tweede jaar	78
Derde jaar	88
Vierde jaar	119

Met dien verstande dat 'n vakleerling wie se leertyd ingevolge klousule 8 (2) (c) verleng is, met ingang van die dag na die datum waarop die derde of vierde jaar van sy leertyd verstryk het, na gelang van die geval, nie minder as R119 per week besoldig moet word nie.

(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—

(i) 60 days in respect of training or service under paragraph (a) or (b) prior to his apprenticeship, where his prescribed period of apprenticeship does not exceed three years;

(ii) 90 days in respect of training or service under paragraph (a) or (b) prior to his apprenticeship, where his prescribed period of apprenticeship is in excess of three years but does not exceed four years; or

(iii) 120 days in respect of training or service under paragraph (a) or (b) prior to his apprenticeship, where his prescribed period of apprenticeship is in excess of four years.

(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 subcommittee in question of such departure and, likewise, within seven days after the apprentice returns from such training or service.

3. WAGES

(1) An employer shall remunerate an apprentice *weekly* at not less than the rates specified below:

(a) An apprentice whose contract was registered *before* the date on which these conditions become effective:

(i) In the trade Fuel Injection Mechanic:	R
First year	69
Second year	78
Third year	119
(ii) In four-year trades:	
First year	69
Second year	78
Third year	88
Fourth year	119
(iii) In five-year trades:	
First year	69
Second year	78
Third year	88
Fourth year	119
Fifth year	119

(b) An apprentice whose contract is registered *on or after* the date on which these conditions become effective:

(i) In three-year trades:	R
First year	69
Second year	88
Third year	119
(ii) In four-year trades:	
First year	69
Second year	78
Third year	88
Fourth year	119

Provided that an apprentice whose period of apprenticeship has been extended in terms of clause 8 (2) (c) shall, with effect from the day following the date of termination of his third or fourth year of apprenticeship, as the case may be, be paid not less than R119 per week.

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

(3) 'n Werkgewer moet die besoldiging voorgeskryf in subklousule (1) 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, indien die sertifikaat of diploma gedurende sy leertyd verwerf word, betaal word vanaf die datum van uitreiking daarvan: Met dien verstande dat daar van geen werkgewer vereis word nie om die bedrag aan 'n vakleerling betaalbaar ingevolge hierdie subklousule, tesame met die loon in subklousule (1) voorgeskryf, te verhoog tot 'n bedrag hoër as die loon wat aan 'n vakman betaalbaar is ingevolge 'n Nywerheidsraadooreenkomst vir die Motornywerheid wat op die betrokke ambag en gebied van toepassing is: Met dien verstande voorts dat niks in hierdie subklousule vervat, die uitwerking mag hê dat die bedrag wat 'n werkgewer voor die datum van inwerkingtreding van hierdie voorwaardes aan 'n vakleerling ten opsigte van opvoedkundige kwalifikasies moes betaal, verlaag word nie.

BYLAE

Opvoedkundige kwalifikasies verwerf voor of gedurende vakleerlingskap	Per week
Groep I (i) Nasionale Tegniese Sertifikaat, Deel I (N1), met die betrokke Ambagsteorie (ii) Standaard 9-sertifikaat (nie-tegniese studierigting), met Wiskunde (iii) Standaard 10-, Senior of Matrikulasiesertifikaat (nie-tegniese studierigting), sonder Wiskunde (iv) Geslaag in die betrokke Ambagsteorie op die peil van die Nasionale Tegniese Sertifikaat, Deel II (N2)	R4,50
Groep II (i) Standaard 10-, Senior of Matrikulasiesertifikaat (nie-tegniese studierigting), met Wiskunde (ii) Standaard 8-sertifikaat (tegniese studierigting), met Werkwinkelpraktyk	R6,00
Groep III (i) Standaard 9-sertifikaat (tegniese studierigting), sonder Werkwinkelpraktyk (ii) Nasionale Tegniese Sertifikaat, Deel II (N2), met die betrokke Ambagsteorie (iii) Nasionale Tegniese Sertifikaat, Deel III (N3), sonder die betrokke Ambagsteorie	R7,50
Groep IV (i) Standaard 9-sertifikaat (tegniese studierigting), met Werkwinkelpraktyk (ii) Standaard 10-, Senior of Matrikulasiesertifikaat (tegniese studierigting), sonder Werkwinkelpraktyk (iii) Matrikulasiesertifikaat, met universiteitstoelating, met Natuurwetenskappe (Natuur- en Skeikunde) of Wiskunde (iv) Nasionale Tegniese Sertifikaat, Deel III (N3), met die betrokke Ambagsteorie op N2-peil (v) Vier vakke op T1-peil	R9,00
Groep V (i) Standaard 10-, Senior of Matrikulasiesertifikaat (tegniese studierigting), met Werkwinkelpraktyk (ii) Nasionale Tegniese Sertifikaat, Deel IV (N4) (iii) Vier vakke op T2-peil	R10,50

(2) Should an employer and a prospective major apprentice, prior to the entering into of a contract, 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.

(3) An employer shall increase the remuneration prescribed in subclause (1) in respect of every apprentice who possesses or obtains any of the educational qualifications scheduled below, or equivalents, by an amount not less than that indicated in the following 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 attained. Any amount to which an apprentice is entitled in terms of this subclause shall, if the certificate or diploma is obtained during his apprenticeship, be payable as from the date of issue thereof: Provided that no employer shall be required to increase the wage of an apprentice in terms of this subclause, plus the wage prescribed in subclause (1), to an amount in excess of the wage payable to a journeyman in terms of an Industrial Council Agreement for the Motor Industry applicable to the relative trade and area: Provided further that nothing in this subclause shall operate to reduce the amount which an employer was required to pay an apprentice in respect of educational qualifications prior to the date of coming into operation of these conditions.

SCHEDULE

Educational qualifications obtained prior to or during apprenticeship	Per week
Group I (i) National Technical Certificate, Part I (N1), with the relevant Trade Theory (ii) Standard 9 Certificate (non-technical field of study) <i>with</i> Mathematics (iii) Standard 10, Senior or Matriculation Certificate (non-technical field of study) <i>without</i> Mathematics (iv) A pass in the relevant Trade Theory at National Technical Certificate, Part II (N2), level	R4,50
Group II (i) Standard 10, Senior or Matriculation Certificate (non-technical field of study) <i>with</i> Mathematics (ii) Standard 8 Certificate (technical field of study) <i>with</i> Workshop Practice	R6,00
Group III (i) Standard 9 Certificate (technical field of study) <i>without</i> Workshop Practice (ii) National Technical Certificate, Part II (N2), <i>with</i> the relevant Trade Theory (iii) National Technical Certificate, Part III (N3), <i>without</i> the relevant Trade Theory	R7,50
Group IV (i) Standard 9 Certificate (technical field of study) <i>with</i> Workshop Practice (ii) Standard 10, Senior or Matriculation Certificate (technical field of study) <i>without</i> Workshop Practice (iii) Matriculation Certificate, with university concession, <i>with</i> Natural Sciences (Physics and Chemistry) or Mathematics (iv) National Technical Certificate, Part III (N3), <i>with</i> the relevant Trade Theory at N2 level (v) Four subjects at T1 level	R9,00
Group V (i) Standard 10, Senior or Matriculation Certificate (technical field of study) <i>with</i> Workshop Practice (ii) National Technical Certificate, Part IV (N4) (iii) Four subjects at T2 level	R10,50

Opvoedkundige kwalifikasies verwerf voor of gedurende vakleerlingskap	Per week
Groep VI (i) Nasionale Tegnieise Sertifikaat, Deel V (N5) (ii) Vier vakke op T3-peil	R12,00
Groep VII (i) Nasionale Diploma (in Ingenieurswese) (ii) Nasionale Tegnieise Sertifikaat, Deel VI (N6) (iii) Nasionale Sertifikaat vir Tegnici	R13,50
Groep VIII (i) Nasionale Diploma vir Tegnici (ii) Nasionale Hoër Diploma (in Ingenieurswese) (iii) Nasionale Tegnieise Diploma (iv) Nasionale Hoër Sertifikaat vir Tegnici, T4	R15,00

4. TEGNIESE STUDIES

(1) 'n Vakleerling moet, waar die nodige fasiliteite beskikbaar is, tegnieise klasse bywoon by wyse van 'n aaneenlopende studiekursus (d.i. groepvrystellingsklasse) by 'n tegnieise inrigting wat deur die Departement van Mannekrag in oorleg met die Nasionale Mannekragopleidingskomitee vir die Motornywerheid bepaal word.

(2) Indien fasiliteite vir die bywoning van tegnieise klasse by wyse van 'n aaneenlopende studiekursus (d.i. groepvrystellingsklasse) nie beskikbaar is nie vir 'n vakleerling wat verplig is om tegnieise klasse ingevolge subklousule (1) by te woon, moet hy, in plaas daarvan waar die nodige fasiliteite beskikbaar is, tegnieise klasse bywoon by die naaste tegnieise inrigting wat deur die Departement van Mannekrag bepaal word: Met dien verstande dat indien sodanige naaste tegnieise inrigting nie geleë is nie binne 20 km van die vakleerling se woonplek of binne 20 km van sy werkplek waar daar van hom vereis word om klasse gedurende die gewone werkure by te woon, hy in plaas van bywoning 'n korrespondensiekursus kan volg wat deur die Technikon RSA, Johannesburg, aangebied word.

(3) (a) 'n Vakleerling moet binne 30 dae na die datum van registrasie van sy kontrak of, as hy op daardie datum opleiding of diens ingevolge die Verdedigingswet, 1957, of die Polisiewet, 1958, doen, binne 30 dae na die datum van sy terugkeer van sodanige opleiding of diens, vir klasbywoning of 'n korrespondensiekursus, na gelang van die geval, inskryf en moet begin om die klasse by te woon of die kursus te volg met ingang van die datum wat die betrokke inrigting bepaal. 'n Werkgewer moet toesien dat 'n vakleerling aan die vereistes van hierdie paragraaf voldoen.

(b) 'n Vakleerling moet tegnieise klasse bywoon of korrespondensiekursusse volg wat in verband staan met die ambag waarvoor hy ingeboek is in ooreenstemming met die leerplanne wat voorgeskryf word vir die Nasionale Tegnieise Sertifikaat, Deel I en II (N1 en N2), of gelykwaardige tegnieise sertifikate, totdat hy die Nasionale Tegnieise Sertifikaat, Deel II (N2), of gelykwaardige tegnieise sertifikaat, verwerf het: Met dien verstande dat 'n vakleerling wat in die eksamen vir genoemde sertifikaat drup maar wel slaag in die ambagsteorie wat betrekking het op die ambag waarvoor hy ingeboek is, nie verdere klasse hoef by te woon of verder 'n korrespondensiekursus hoef te volg nie, na gelang van die geval.

(c) Waar fasiliteite beskikbaar is vir die bywoning van tegnieise klasse by wyse van 'n aaneenlopende studiekursus, moet 'n vakleerling sodanige klasse bywoon op vyf dae per week, gedurende sy gewone werkure, vir die duur van een sodanige kursus, en gedurende daardie tydperk mag sy werkgewer nie van hom vereis om hom vir werk of enige ander doel aan te meld nie. Indien die vakleerling in die eksamen wat aan die einde van die kursus afgeneem word,

Educational qualifications obtained prior to or during apprenticeship	Per week
Group VI (i) National Technical Certificate, Part V (N5) (ii) Four subjects at T3 level	R12,00
Group VII (i) National Diploma (in Engineering) (ii) National Technical Certificate, Part VI (N6) (iii) National Certificate for Technicians	R13,50
Group VIII (i) National Diploma for Technicians (ii) National Higher Diploma (in Engineering) (iii) National Technical Diploma (iv) National Higher Certificate for Technicians, T4	R15,00

4. TECHNICAL STUDIES

(1) An apprentice shall, where the necessary facilities exist, attend technical classes by continuous course of study (i.e. block-release classes) at a technical institution to be determined by the Department of Manpower in consultation with the National Manpower Training Committee for the Motor Industry.

(2) If facilities for the attendance of technical classes by continuous course of study (i.e. block-release classes) are not available to an apprentice who is required to attend technical classes in terms of subclause (1) he shall, instead, where the necessary facilities exist, attend technical classes at the nearest technical institution to be determined by the Department of Manpower: Provided that if such nearest technical institution is not located within 20 km of the apprentice's residence or within 20 km of his place of work, in cases where attendance is required of him during ordinary working hours, he may in lieu of attendance take a correspondence course conducted by the RSA Technikon, Johannesburg.

(3) (a) An apprentice shall, within 30 days of the date of registration of his contract or, if he is at that date undergoing training or service in terms of the Defence Act, 1957, or the Police Act, 1958, within 30 days after the date of his return from such training or service, enrol for class attendance or a correspondence course, as the case may be, and shall commence attendance of classes or take the course as from such date as may be determined by the institution concerned. An employer shall ensure that an apprentice complies with this paragraph.

(b) An apprentice shall attend technical classes or follow correspondence courses relevant to the trade in which he is indentured in accordance with the syllabuses prescribed for the National Technical Certificate, Parts I and II (N1 and N2), or equivalent technical certificates, until he obtains the National Technical Certificate, Part II (N2), or equivalent technical certificate: Provided that an apprentice who fails in the examination for the said certificate but obtains a pass in the trade theory relevant to the trade in which he is indentured, shall not be required to attend further classes or take a further correspondence course, as the case may be.

(c) 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 one such course, and during that period he shall not be required by his employer to report for work or any other purpose. If, at the examination conducted at the end of the course, the apprentice obtains the full certificate for which he has entered, he shall be entitled to

die volle sertifikaat verwerf waarvoor hy ingeskryf het, is hy geregtig om voort te gaan om klasse op voormelde grondslag by te woon. 'n Vakleerling is nie geregtig om meer as een aaneenlopende studiekursus ingevolge hierdie klousule in 'n akademiese jaar by te woon nie. 'n Vakleerling wat nie daarin slaag om die volle sertifikaat te verwerf nie, is nie geregtig om voort te gaan om klasse op voormelde grondslag by te woon nie, maar moet hy vir klasbywoning inskryf by die naaste tegniese inrigting wat deur die Departement van Mannekrag bepaal word. Sodanige bywoning moet geskied buite sy gewone werkure: Met dien verstande dat indien geen fasiliteite vir klasbywoning buite die gewone werkure binne 20 km van die vakleerling se woonplek beskikbaar is nie, hy in plaas van klasbywoning 'n korrespondensiekursus kan volg wat deur die Technikon RSA, Johannesburg, aangebied word. By verwerwing van die volle sertifikaat is die vakleerling geregtig om weer klasse by te woon by wyse van 'n aaneenlopende studiekursus.

(d) Ondanks die bepalings van paragraaf (c) kan 'n werkgever 'n vakleerling wat nie die volle sertifikaat verwerf het waarvoor hy ingeskryf het nie, toelaat om weer klasse deur middel van 'n aaneenlopende studiekursus gedurende gewone werkure by te woon in plaas van klasbywoning by die naaste tegniese inrigting, en die bepalings van klousule 6 (1) en (2) en 7 (1) sal *mutatis mutandis* op sodanige werkgever en sy vakleerling van toepassing wees.

(e) 'n Vakleerling vir wie fasiliteite vir die bywoning van tegniese klasse by wyse van 'n aaneenlopende studiekursus nie beskikbaar is nie, moet tegniese klasse vir een akademiese jaar gedurende sy gewone werkure bywoon, so na as doenlik vir òf—

(i) agt uur op een dag per week; òf

(ii) vier uur op elk van twee dae per week:

Met dien verstande dat klasbywoning in geen geval tot later as 19h15 mag duur nie.

(f) Verpligte bywoning van klasse nadat 'n vakleerling in paragraaf (a) vermeld vir een akademiese jaar klasse bygevoon het, moet geskied buite die gewone werkure: Met dien verstande dat, indien hy die volle sertifikaat verwerf waarvoor hy ingeskryf het, hy geregtig is om voort te gaan om klasse gedurende gewone werkure by te woon.

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

(5) Ondanks subklousule (3) (b) word daar nie van 'n vakleerling vereis om verdere klasse by te woon of verder 'n korrespondensiekursus te volg nie, na gelang van die geval, indien hy nie binne twee jaar vanaf die datum van die aanvang van sy tegniese studies die sertifikaat waarvoor hy oorspronklik ingeskryf het, verwerf het nie.

(6) 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 tegniese klasse by te woon of 'n korrespondensiekursus vir minstens die helfte van 'n akademiese jaar te volg nie, na gelang van die geval, word daar nie vereis om sy studies gedurende daardie jaar voort te sit nie.

(7) Subklousule (3) (c) en (e) is *mutatis mutandis* van toepassing op 'n vakleerling wat die sertifikaat vermeld in subklousule (3) (b) verwerf het of wat reeds in besit is van 'n hoër tegniese kwalifikasie en studies in verband met die ambag waarvoor hy ingeboek is, vrywillig voortsit.

continue attending classes on the aforesaid basis. An apprentice shall not be entitled to attend more than one continuous course of study in terms of this clause in any one academic year. An apprentice who fails to obtain the full certificate shall not be entitled to continue attending classes on the said basis but shall be required to enrol for class attendance at the nearest technical institution to be determined by the Department of Manpower. Such attendance shall take place outside his ordinary hours of work: Provided that if facilities for class attendance outside the ordinary working hours do not exist within 20 km of his residence he may, in lieu of class attendance, take a correspondence course conducted by the RSA Technikon, Johannesburg. Upon obtaining the full certificate the apprentice shall again be entitled to attend classes by means of a continuous course of study.

(d) Notwithstanding the provisions of paragraph (c) an employer may permit an apprentice who fails to obtain the full certificate for which he has entered to again attend classes by means of a continuous course of study during ordinary working hours in lieu of class attendance at the nearest technical institution and the provisions of clauses 6 (1) and (2) and 7 (1) shall *mutatis mutandis* apply to such employer and his apprentice.

(e) An apprentice for whom facilities for technical class attendance by continuous course of study are not available shall attend technical classes for one academic year during his 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.

(f) Compulsory attendance of classes after an apprentice referred to in paragraph (a) has attended classes for one academic year shall be outside the ordinary hours of work: Provided that if he obtains the full certificate for which he has entered he shall be entitled to continue attending classes during ordinary working hours.

(4) An apprentice taking a correspondence course shall, where the Registrar of Manpower has determined a place for the study of such correspondence course, study at such place and the provisions of subclause (3) (e) and (f) shall *mutatis mutandis* apply to such apprentice.

(5) Notwithstanding subclause (3) (b) an apprentice who does not within two years of the date of commencement of his technical studies obtain the certificate for which he originally enrolled shall not be required to attend further classes or take a further correspondence course, as the case may be.

(6) An apprentice who, because of absence 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 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.

(7) Subclause (3) (c) and (e) shall *mutatis mutandis* apply to an apprentice who has obtained the certificate mentioned in subclause (3) (b) 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. PRAKTIESE INSTITUSIONELE OPLEIDING

(1) 'n Vakleerling moet praktiese opleidingskursusse bywoon soos van tyd tot tyd deur die Nasionale Mannekrag-opleidingskomitee vir die Motornywerheid voorgeskryf en deur die Registrateur van Mannekragopleiding goedgekeur word.

(2) 'n Vakleerling met die praktiese opleidingskursusse op vyf dae per week gedurende sy gewone werkure vir die duur van sodanige kursusse bywoon en sy werkgewer mag nie gedurende hierdie tydperk vereis dat hy vir werk of enige ander doel aanmeld nie.

(3) 'n Vakleerling moet praktiese opleidingskursusse aan 'n inrigting begin bywoon op 'n datum en vir 'n tydperk wat bepaal word deur die Nasionale Mannekragopleidingskomitee vir die Motornywerheid en die Departement van Mannekrag.

(4) Die bepalings van klousule 6 is *mutatis mutandis* van toepassing ten opsigte van vakleerlinge wat ingevolge hierdie klousule praktiese opleidingskursusse bywoon.

6. VERVOERTOELAES EN KOSHUISGELDE

(1) Die werkgewer van 'n vakleerling wat ingevolge klousule 4 (1) verplig is, of wat ingevolge klousule 4 (7) verkies, om 'n aaneenlopende studiekursus te volg aan 'n tegniese inrigting wat deur die Departement van Mannekrag bepaal word, of 'n vakleerling van wie daar vereis word om 'n praktiese opleidingskursus ingevolge klousule 5 by te woon, moet, indien die vakleerling meer as 20 km van die spoorwegstasie naaste aan daardie inrigting woonagtig is, die vakleerling minstens een week voordat sodanige studiekursus begin, van die reisgeld voorsien vir 'n tweede-klasreitoertreinkaartjie tussen die stasies naaste aan sy woonplek en die betrokke inrigting.

(2) 'n Vakleerling in subklousule (1) bedoel, moet, ten einde die aaneenlopende studiekursus en die praktiese opleidingskursus by te woon, inwoon in die koshuis wat aangedui word deur die betrokke inrigting wat kragtens klousules 4 (1) en 5 (1) bepaal word, en moet homself by sodanige koshuis op 'n betaamlike wyse en ooreenkomstig goeie dissipline gedra: Met dien verstande dat indien die inrigting wat kragtens klousules 4 (1) en 5 (1) bepaal word, binne 20 km van 'n vakleerling se woonplek of binne 20 km van sy werkplek is, hy nie verplig is om in 'n koshuis in te woon nie: Met dien verstande voorts dat indien 'n vakleerling wie se woon- of werkplek binne 'n straal van 40 km van die Tegniese Kollege in Durban of Pietermaritzburg val en wat verplig is om tegniese klasse by sodanige kollege by te woon, nie verplig is om in 'n koshuis in te woon nie.

(3) Die werkgewer van 'n vakleerling wat dros vanaf of geskors word uit 'n koshuis in klousules 4 en 5 genoem, is geregtig om, namens die Nasionale Ontwikkelingsfonds vir die Motornywerheid, die koshuisgelde ten opsigte van sodanige vakleerling te verhaal van laasgenoemde se loon, in weeklikse paalemente van hoogstens 20 persent van sy weekloon.

Opmerking.—Die Bestuurskomitee van die Nasionale Ontwikkelingsfonds vir die Motornywerheid, Posbus 3473, Johannesburg, 2000, sal werkgewers vergoed vir uitgawes wat ingevolge klousules 5 en 6 aangegaan is, en die koshuisgelde regstreeks aan die betrokke inrigting betaal.

7. BETALING VAN KLAS- OF KURSUS- EN EKSAMENGELDE

(1) '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 ingevolge klousule 4 (7) verkies om klasse by te woon of 'n korrespondensiekursus te volg of vir 'n eksamen in te skryf, en kan die bedrag aldus voorgeskiet, van die loon van die vakleerling aftrek in gelyke weeklikse

5. PRACTICAL INSTITUTIONAL TRAINING

(1) An apprentice shall attend practical training courses as prescribed from time to time by the National Manpower Training Committee for the Motor Industry and approved by the Registrar of Manpower Training.

(2) An apprentice shall attend practical training courses on five days per week during the ordinary hours of work for the duration of such courses and during that period he shall not be required by his employer to report for work or any other purpose.

(3) An apprentice shall commence attendance of practical training courses at an institution as from such date and for such period as may be determined by the National Manpower Training Committee for the Motor Industry and the Department of Manpower.

(4) The provisions of clause 6 shall, *mutatis mutandis*, apply in respect of apprentices who attend practical training courses in terms of this clause.

6. TRANSPORT ALLOWANCES AND HOSTEL FEES

(1) The employer of an apprentice who in terms of clause 4 (1) is required, or who in terms of clause 4 (7) elects, to attend a continuous course of study at a technical institution determined by the Department of Manpower or an apprentice who is required to attend a practical training course in terms of clause 5 shall, if the apprentice resides more than 20 km from the railway station nearest to that institution, provide the apprentice with second-class return railway fare between the stations nearest to his residence and the institution in question at least one week before the commencement of the said courses.

(2) An apprentice referred to in subclause (1) shall, for the purpose of attending the continuous course of study and the practical training course, reside at such hostel as may be specified by the appropriate institution determined in terms of clauses 4 (1) and 5 (1) and shall at such hostel conduct himself in a seemly manner and in accordance with good discipline: Provided that if the institution determined in terms of clauses 4 (1) and 5 (1) is located within 20 km of the apprentice's residence or 20 km of his place of work he shall not be required to reside at a hostel: Provided further that an apprentice whose residence or place of work falls within a 40 km radius of the Technical Colleges in Durban or Pietermaritzburg, and who is required to attend technical classes at such college, shall not be required to reside at a hostel.

(3) The employer of an apprentice who deserts or is expelled from any hostel referred to in clauses 4 and 5 shall be entitled, on behalf of the National Development Fund for the Motor Industry, to recover the hostel fees in respect of such apprentice from the wages of the latter in weekly instalments not exceeding 20 per cent of his weekly wage.

Note.—The Management Committee of the National Development Fund for the Motor Industry, P.O. Box 3473, Johannesburg, 2000, will reimburse employers' expenditure incurred under clauses 5 and 6 and pay the hostel fees direct to the institution concerned.

7. PAYMENT OF CLASS OR COURSE AND EXAMINATION FEES

(1) 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 (7) elects, to attend any classes or to follow correspondence courses or to enter for any examination and may deduct the amount so advanced from the wages of the

paaielemente gedurende 'n tydperk van 12 maande vanaf die datum waarop die voorskot gemaak is: Met dien verstande dat—

(i) indien die vakleerling in 'n eksamen die sertifikaat verwerf waarvoor hy ingeskryf het, die volle bedrag wat ten opsigte van klas- of kursusgelde en eksamengelde vir daardie eksamen afgetrek is, deur die werkgever aan hom terugbetaal moet word;

(ii) indien die vakleerling nie daarin slaag om die sertifikaat in paragraaf (i) gemeld, te verwerf nie, die terugbetaling van klas- of kursusgelde en eksamengelde gedoen moet word slegs ten opsigte van vakke waarin die vakleerling in die betrokke eksamen geslaag het.

(2) Geen klas- of kursusgelde is deur 'n vakleerling of deur die werkgever betaalbaar ten opsigte van praktiese institusionele opleidingskursusse wat deur die Nasionale Ontwikkelingsfonds vir die Motornywerheid aangebied word nie.

8. AMBAGSTOETSE

(1) 'n Vakleerling wie se kontrak voor die datum van inwerkingtreding van hierdie Leervoordes geregistreer is of word.—(a) 'n Vakleerling moet in die stadium in die volgende Bylae vermeld, 'n kwalifiserende ambagstoets wat deur die Departement van Mannekrag afgeneem word, aflê in die praktyk van die ambag waarvoor hy ingeboek is:

BYLAE

Ambag	Stadium
(i) In die ambag Brandstof-inspuitwerktuigkundige	So kort doenlik voor die aanvang van die laaste ses maande van die leertyd of so spoedig moontlik daarna.
(ii) In vierjaarambagte	So kort doenlik voor die einde van die derde jaar van die leertyd of so spoedig moontlik daarna.
(iii) In vyfjaarambagte	So kort doenlik voor die einde van die vierde jaar van die leertyd of so spoedig moontlik daarna.

(b) 'n Vakleerling in hierdie subklousule bedoel, wat die Nasionale Tegniese Sertifikaat, Deel II (N2) of 'n gelykwaardige of hoër kwalifikasie geslaag het in die teorie van die ambag waarvoor hy ingeboek is, kan vrywillig 'n kwalifiserende ambagstoets aflê na voltooiing van die leertyd in die Bylae genoem. 'n Verdere vrywillige kwalifiserende toets of toetse kan afgelê word op 'n datum of datums wat deur die Departement van Mannekrag bepaal word.

BYLAE

Ambag	Tydspek van praktiese opleiding uitgesonderd teoretiese studies by 'n tegniese inrigting
(i) In die ambag Brandstofinspuit-werktuigkundige	Twee jaar.
(ii) In vierjaarambagte	Twee en 'n halwe jaar.
(iii) In vyfjaarambagte	Drie jaar.

(2) 'n Vakleerling wie se kontrak op of na die datum van inwerkingtreding van hierdie Leervoordes geregistreer is of word.—(a) 'n Vakleerling moet ingevolge klousule 2 (2) (a) en (b) so gou doenlik voor die einde van sy leertyd 'n kwalifiserende ambagstoets, deur die Departement van Mannekrag afgeneem, aflê in die praktyk van die ambag waarvoor hy ingeboek is.

(b) 'n Vakleerling wat op die peil van die Nasionale Tegniese Sertifikaat, Deel II (N2), of 'n gelykwaardige of hoër kwalifikasie geslaag het in die teorie van die ambag waarvoor hy ingeboek is, kan vrywillig 'n kwalifiserende ambagstoets aflê na voltooiing van die leertyd in die Bylae

apprentice in equal weekly instalments during a period of 12 months from the date on which the advance was made: Provided that—

(i) if at an examination, the apprentice obtains the certificate for which he has entered the full amount deducted in respect of class or course fees and the examination fees for that examination shall be refunded to him by the employer;

(ii) if the apprentice fails to obtain the certificate mentioned in paragraph (i) the refunds 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.

(2) No class or course fees shall be payable by an apprentice or an employer in respect of practical institutional training courses conducted by the National Development Fund for the Motor Industry.

8. TRADE TESTS

(1) An apprentice whose contract is or was registered before the date on which these Conditions become effective.—(a) An apprentice shall undergo a qualifying trade test conducted by the Department of Manpower at the stage indicated in the following Schedule in the practice of the trade in which he is indentured:

SCHEDULE

Trade	Stage
(i) In the trade Fuel Injection Mechanic	As shortly as practicable before the commencement of the final six months of the period of apprenticeship or as soon as possible thereafter.
(ii) In four-year trades	As shortly as practicable before the end of the third year of the period of apprenticeship or as soon as possible thereafter.
(iii) In five-year trades	As shortly as practicable before the end of the fourth year of the period of apprenticeship or as soon as possible thereafter.

(b) An apprentice referred to in this subclause 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 may voluntarily undergo a qualifying trade test after completion of the period of apprenticeship indicated in the Schedule. A further voluntary qualifying test or tests may be undertaken on a date or dates to be determined by the Department of Manpower.

SCHEDULE

Trade	Period of practical training excluding theoretical studies at a technical institution
(i) In the trade Fuel Injection Mechanic	Two years.
(ii) In four-year trades	Two-and-a-half years.
(iii) In five-year trades	Three years.

(2) An apprentice whose contract is or was registered on or after the date on which these conditions become effective.—(a) An apprentice shall undergo a qualifying trade test conducted by the Department of Manpower as shortly as practicable before the end of his period of apprenticeship in terms of clause 2 (2) (a) and (b) in the practice of the trade in which he is indentured.

(b) An apprentice 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 may voluntarily undergo a qualifying trade test after completion of the period of apprenticeship indicated in the

hiervan vermeld, wat enige verkorting van die leertyd waarvoor in klousule 2 (3) voorsiening gemaak word, insluit. 'n Verdere vrywillige kwalifiserende toets of toetse kan afgeleë word op 'n datum of datums wat deur die Departement van Mannekrag bepaal word.

BYLAE

Ambag	Tydperk van praktiese opleiding, met inbegrip van teoretiese studies by 'n tegniese inrigting
(i) In driejaarambagte	72 weke.
(ii) In vierjaarambagte	85 weke.

(c) Die leertyd van 'n vakleerling wat nie voor die einde van sy leertyd in 'n ambagstoets ingevolge paragraaf (a) of (b) geslaag het of slaag nie, moet met 'n tydperk van 12 maande verleng word: Met dien verstande dat die vakleerling, of hy in besit is van die kwalifikasie wat in paragraaf (b) genoem word of nie, gedurende sodanige verlengde tydperk vrywillig 'n kwalifiserende ambagstoets of -toetse kan aflê op 'n datum of datums wat deur die Departement van Mannekrag bepaal word.

9. OPLEIDINGSKURSUSSE

'n Werkgewer moet 'n vakleerling praktiese opleiding in die ambag waarvoor hy ingeboek is, gee in ooreenstemming met en sover doenlik in die volgorde soos in die Bylae hiervan uiteengesit. 'n Vakleerling moet, sover prakties moontlik opgelei word onder die gereelde toesig van 'n ambagsman wat bevoeg is om hom in die ambag waarvoor hy ingeboek is, op te lei.

following Schedule, which shall include any reduction in the period of apprenticeship provided for in clause 2 (3). A further voluntary qualifying test or tests may be undertaken on a date or dates to be determined by the Department of Manpower.

SCHEDULE

Trade	Period of practical training including theoretical studies at a technical institution
(i) In three-year trades	72 weeks.
(ii) In four-year trades	85 weeks.

(c) The period of apprenticeship of an apprentice who has not passed, or does not pass, a trade test in terms of paragraph (a) or (b) before the end of his period of apprenticeship shall be extended by a period of 12 months: Provided that during such an extended period the apprentice may, whether or not he is in possession of the qualification referred to in paragraph (b) voluntarily undergo a qualifying trade test or tests on a date or dates to be determined by the Department of Manpower.

9. COURSES OF TRAINING

An employer shall provide an apprentice with practical training in the trade in which he is indentured in accordance with and as far as practicable in the sequence listed in the following Schedule. 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

Soort werk

Praktiese opleiding

Getal ure aanbeveel vir onderrig in elke soort werk

1. AMBAG: BRANDSTOFINSPUITINGPOMPWERKTUIGKUNDIGE (8)

1.1	Inleiding tot die bedryf	Verantwoordelikhede, voorkoms en houding in werksituasie.	28
1.2	Veiligheid	Basiese veiligheidsmaatreëls van toepassing in die ambag wat gedurende vakleerlingskap beoefen moet word, met spesiale aandag aan veilige hantering en versorging van handgereedskap, giftige en vlambare gasse, vloeistowwe en gasse wat onder druk verkeer, elektriese installasies, masjienbeskerming, masjien- en lugdrukgereedskap, slypwiele, bewegende en oorhoofse masjinerie en gebruik van draagbare brandblussers. Teorie en praktyk van eerstehulp.	50
2.0	Kennis van:		
2.1	Hand- en werkswinkel-gereedskap	Versorging en gebruik van gereedskap. Vervaardiging van werkstukke en/of dele deur gebruik te maak van die tegnieke afbeiteling, boor, vyl, ruim, saag, skraap, buitedraadinsnyding en moerdraadinsnyding. Skerpmaak van snygereedskap. Gebruik van trekoute en perse. Afwerking, haaks maak, kontrolering en montering van wiele op slypmasjiene. Gebruik van vasheg-, sluit- en seëltoestelle.	100
2.2	Braseer-, soldeer- en sweiswerk	Kennis en gebruik van gas- en elektriese sweis- en soldeerprosesse.	90
2.3	Tekeninge	Lees en interpreteer van tekeninge in werkswinkelhandboeke en bulletins.	60
3.0	Krageenheid	Kennis van funksionering en verskillende vorme van energie en die werking van binnebrandenjins.	140
3.1	Koeël-, rol- en babbittmetaallaers	Kennis van tipes laers wat algemeen in brandstofinspuitsels in die motornywerheid gebruik word. Eenvoudige berekeninge maak. Identifisering van geslyte en foutiewe laers.	116
3.2	Inspuitnossels	Die hantering van inspuitsnosselluitrusting. Uitmekaarhaal, inspekteer en inmeekaarsit van inspuitsers. Inspekteer van nossels om seker te maak dat nossels wat deur enjinfabrikante gespesifiseer word, gebruik word. Inspekteer en nagaan van alle onderdele van inspuiterhousers. Inspekteer van inspuitsnaalde en -nossels om vas te stel of hulle ekonomies vernuwe kan word en of vervanging nodig is. Kennis en gebruik van 'n suigwaaier. Kies van die korrekte slyphoeke by die fynslyp van penne ten einde die beddinghoeke ooreenkomstig oorspronklike spesifikasie te herstel. Herslyping van naalde tot hoeke soos oorspronklik gespesifiseer. Gebruik van spesiale fyn-slyppastas. Nagaan van spuitieskappe en naaldligthoogtes. Finale inmeekaarsit van 'n inspuiter. Toets, stel volgens gespesifiseerde oopmaakdruk. Vernuwning van inspuitsers, onderhoud van inspuitsnosselluitrusting. Nosselskoonmaakteorie.	500
3.3	Brandstofpompe	Uitmekaarhaal en inmeekaarsit van nokaslose een- en meersilinderbrandstofpompe. Uitmekaarhaal en inmeekaarsit van gelidbrandstofpompe met nokasse; meganiese of druklugreëlaars; oorplaas (of primêre) pompe. Uitmekaarhaal, inspekteer, vervanging van geslyte dele, weer inmeekaarsit, nagaan en kalibrering van brandstofpompe met hidrouliese reëlaars. Uitmekaarhaal, inspekteer, vervanging van geslyte dele weer inmeekaarsit, nagaan en kalibrering van draaitipe brandstofpompe.	978

Logboek-simbool	Soort werk	Praktiese opleiding	Getal ure aanbeveel vir onderrig in elke soort werk
3.4	Meer gevorderde werk	Kalibrering van gelidbrandstofpompe. Kennis van die lees van basiese kalibreerkaarte en hoe om dit op toetsmasjiene op brandstofpompe toe te pas. Stel van basiese en maksimum brandstoflesings. Nagaan en stel van reëlaars vir maksimum en luiersnelhede. Toets van primêre pompe vir druk en lewering. Brandstofpompe en inspuisers van voertuie afhaal en terugsit. Tydreëling nagaan en weer stel. Foute opspoor. Onderhoud van kalibreertoerusting. Kennis van brandstofinspuistelsels.	818
3.5	Hersiening en selfstandig werk		*
2. AMBAG: DIESELWERKTUIGKUNDIGE (6)			
1.1	Inleiding tot die bedryf	Verantwoordelikhede, voorkoms en houding in werksituasie.	28
1.2	Veiligheid	Basiese veiligheidsmaatreëls van toepassing in die ambag wat gedurende vakleerling-skap beoefen moet word, met spesiale aandag aan veilige hantering en versorging van handgereedskap, giftige en vlambare gasse, vloeistowwe en gasse wat onder druk verkeer, elektriese installasies, masjienbeskerming, masjien- en lugdrukgereedskap, slypwiele, bewegende en oorhoofse masjinerie en gebruik van draagbare brandblussers. Teorie en praktyk van eerstehulp.	50
2.0	Kennis van:		
2.1	Hand- en werkswinkelgereedskap	Versorging en gebruik van gereedskap. Vervaardiging van werkstukke en/of dele deur gebruik te maak van die tegnieke afbeiteling, boor, vyl, ruim, saag, skraap, buitendraadsnyding en moederdraadsnyding. Skerpmaak van snygereedskap. Gebruik van trekbout en perse. Afwerking, haaks maak, kontrolering en montering van wiele op slypmasjiene. Gebruik van vasheg-, sluit- en seëltoestelle.	100
2.2	Braseer-, soldeer- en sweiswerk	Kennis en gebruik van gas- en elektriese sweis- en soldeerprosesse. Uitgloeiing van materiaal.	90
2.3	Tekeninge	Lees en interpreteer van tekeninge in werkswinkelhandboeke en bulletins.	60
3.0	Krageneheid	Kennis van funksionering en verskillende vorme van energie en die werking van kompressieontstekingsenjins.	156
3.1	Stelsels	Kennis van funksionering en samestelling van brandstof-, uitlaat-, turboaanjaer-, verkoeling- en smeerstelsels, vakuumpompe en lugkompressors, inspuisers en inspuistpompe en uitlaatremsels.	166
3.2	Elektriese beginsels	Kennis van batterye, volt, ampère, ohm, watt, magnetisme en die werking van parallelkakelaars. Elementêre kennis van aansitmotore, alternators, generators, reëlaars, voorverhit- en ander koudaansittoestelle.	130
3.3	Koeël-, rol- en babbittmetaallaars	Kennis van tipes laars in gebruik in die motornywerheid. Eenvoudige berekeninge maak. Identifisering van geslyte en foutiewe laars.	116
4.0	Koppelaars	Kennis van alle tipes koppelaars in gebruik in die motornywerheid.	124
4.1	Ratkaste	Kennis van eenvoudige ratkasbeginsels. Berekening van eenvoudige ratverhoudings. Kennis en identifisering van verskillende tipes ratstelsels.	132
4.2	Dryfasse	Kennis van funksie van dryfasse en soorte koppeling. Gebruik van smeermiddels. Verwydering en terugplasing van kruiskoppeling.	132
4.3	Eindaandrywing	Kennis van teorie van wurmaandrywing, kroon- en kleinrataangedrewe agterasse, planeetataandrywingstelsels. Berekening van eenvoudige verhoudings. Gebruik van wyserplaattoetsers. Kennis en identifisering van ewenaartipes en astipes. Verwydering en terugplasing van agterste wiellaars.	140
4.4	Wiele en bande	Identifisering van tipes wiele, vellings en bandgroottes, oorsake van bandslytasie en bandbreuk. Verwydering, verstelling en terugplasing van voorste wiellaars. Afhaal en terugplasing van wiele, buite- en binnebande. Balansering van wiele.	130
4.5	Vering en stuurstelsels	Kennis van samestelling van blad- en kronkelvere, wringstawe, skokbrekers en lugveringstelsels. Identifisering van alle seksies van voorveringstelsels algemeen in gebruik in die motornywerheid. Kennis van samestelling en die vermoë om geslyte stuurkasstelsels te identifiseer.	140
4.6	Stuurgeometrie	Kennis van volledige stuurgeometrie van swaar voertuie algemeen in gebruik in die motornywerheid.	140
4.7	Remme	Kennis van wrywingswette en die vermoë om die samestelling van wrywingsmateriale te identifiseer. Kennis van werking van eenvoudige remversterkers en verskillende lugremstelsels algemeen in gebruik in die motornywerheid. Vermoë om remstelsels wat algemeen in die motornywerheid gebruik word, korrek te verwyder, terug te plaas en te verstel.	140
5.0	Smering en diens	Aanwending van onderhoudskedules, smeermiddels en materiale. Onderhoud van batterye, filters, pompe en kompressors. Gebruik en onderhoud van hidrouliese hysuitrusting.	152
5.1	Verkoelingstelsels	Onderhoud van verkoelingstelsels.	152
5.2	Instelling van enjins	Verstelling van luierstelsels en terugvoerafsluittydreëling.	152
5.3	Vervanging en diens van komponente	Verwydering en terugplasing van enjinsamestelle en dele van stelsels soos verkoeling-, brandstof-, elektriese- en uitlaattelsels; koppelaars, ratkaste, dryfasse, kruiskoppeling, agterasmiddelstukke en -samestelle, voorste en agterste veringkomponente; meganiese en hidrouliese remkomponente; voorste en agterste wiellaars; elektriese ligstelsel, diagnosering en onderskeiding van noodsaaklikheid van vervanging of opknapping van verslyte dele.	512
5.4	Sleep en herwinning van voertuie	Ondervinding in elementêre sleep en herwinning van voertuie.	512

* Oorblywende leertyd.

<i>Logboek-simbool</i>	<i>Soort werk</i>	<i>Praktiese opleiding</i>	<i>Getal ure aanbeveel vir onderrig in elke soort werk</i>
5.5	Tekeninge en diagramme	Die maak van tekeninge van meganiese dele en basiese outo-elektriese stroombane.	90
6.1	Gevorderde praktiese opleiding	Lees en interpreteer van tekeninge, tekens en simbole en basiese bedradingsdiagramme.	
6.2	Enjineenhede—opknapping en pas van dele	Aftakeling en volledige inmeekaarsit van enjin, insluitende opknap en pas van die volgende dele: Suiers, ringe en suierpenne, hoof- en grootkoplars, silinderkoppe en klepgange, voorverhitters en inspuisers.	250
6.3	Inspeksie en vasstelling van slytasie	Lokalisering en identifisering van foute in silinders, op krukas-, hoof- en grootkop-tappe, nokastappe, klepgange en silinderkoppe.	250
6.4	Vasstelling van slytasie en opknapping van stelsels en eenhede	Opknapping, vasstelling van slytasie, weer inmeekaarsit en verstel waar nodig van—koppelaars, ratkaste, dryfasse, eindaandrywing, voorste en agterste assamestelle, stuurkaste en skakelings, veringstelsels en remstelsels. Lokaliseer van foute deur sistematiese foutspeuring en verstelling en/of vervanging van geslyte of foutiewe komponente en onderdele. Herstel en/of vervanging van foutiewe samestellings.	250
6.5	Herinstel van stuurgeometrie	Kennis en vermoë om volledige stuurgeometrie van voertuig algemeen in gebruik in die motornywerheid, herin te stel.	30
6.6	Toetstoerusting en meters	Korrekte gebruik van kompressietoetsers, ammeters, voltmeters, ohmmeters, brandstofpompdrukmeters, tydreëlligte (waar geriewe beskikbaar is), uitlaatgasontleders en inspuisertoetsers.	280
6.7	Groot versiening	Uitvoer van groot versienings, brandstofpompe, inspuisers, voorverhitters, instelling van terugvoertydreëling, versiening van uitlaat en remstelsels.	280
6.8	Hersiening en selfstandig werk		*
3. AMBAG: GEREEDSKAP-, SETMAAT-, EN STEMPELMAKER (12)			
1.1	Inleiding tot die bedryf	Verantwoordelikhede, voorkoms en houding in werksituasie.	28
1.2	Veiligheid	Basiese veiligheidsmaatreëls van toepassing in die ambag wat gedurende vakleerlingskap beoefen moet word, met spesiale aandag aan veilige hantering en versorging van handgereedskap, giftige en vlambare gasse, vloeistowwe en gasse wat onder druk verkeer, elektriese installasies, masjiënbeskerming, masjiën- en lugdrukgereedskap, slypwiele, bewegende en oorhoofse masjinerie en gebruik van draagbare brandblussers. Teorie en praktyk van eerstehulp.	50
2.0	Kennis van:		
2.1	Hand- en werkwinkelgereedskap	Versorging en gebruik van gereedskap. Vervaardiging van werkstukke en/of dele deur gebruik te maak van die tegnieke afbeiteling, boor, vyl, ruim, saag, skraap, buitedraadinsnyding en moerdraadinsnyding. Snygereedskap skerpmak en vorm. Gebruik van trekoute en perse. Afwerking, haaks maak, kontrolering en montering van wile opslipmasjiene. Gebruik van vasheg-, sluit- en seëltoestelle.	280
2.2	Braseer-, soldeer- en sweiswerk	Kennis en gebruik van gas, elektriese sweising-, lood- en silwersoldeerprosesse. Kennis van fisiese eienskappe van verskillende materiale in gebruik in die motornywerheid.	120
2.3	Tekeninge	Lees en interpreteer van tekeninge.	350
2.4	Meet	Gevorderde kennis van versorging en gebruik van meetinstrumente algemeen in gebruik in die motornywerheid.	220
3.1	Basiese werk	Kennis van eenvoudige senterdraaibankwerk. Korrekte voer en spoed vir verskillende materiale en take. Bediening van sterkarnskaafmasjiene en boormasjiene. Bereiding van stempels en masjientekeninge, insluitende onderrig in tipes perse en hulptoerusting wat die stempelontwerpe beïnvloed. Bediening van gereedskapslypmasjiene, draaibanke, frees- en hand- of outomatiese kopieerstempelfreesmasjiene (insluitende gebruik van verdeelkop). Kennis van hittebehandeling en die skoonmaak en/of poleer van stempels.	900
4.1	Meer gevorderde werk	Maak en herstel van patrone, meters, setmate en hegstukke. Uitleg van stempelplate. Stempels vir vormstukke en/of gietstukke maak, ook deur epoksihars te gebruik. Onderrig in vormgietegnieke, met inbegrip van oppervlakverharding. Grofsmidopleiding in die vervaardiging van snelsnystaalbeitels en vormpense en smeestempels wat gebruik word vir bankwerk in afdruksinkwerk. Profielafdrukke met bo- en onderrande afmerk, met inbegrip van die nodige tapse hoeke. Loodstrokies afmerk om seker te maak dat komponent in alle aspekte met die nodige krimpspeling binne toleransies is.	1 452
5.1	Hersiening en selfstandig werk		*
4. AMBAG: MOTORFIETS- EN BROMPONIEWERKTUIGKUNDIGE (9)			
1.1	Inleiding tot die bedryf	Verantwoordelikhede, voorkoms en houding in werksituasie.	28
1.2	Veiligheid	Basiese veiligheidsmaatreëls van toepassing in die ambag wat gedurende vakleerlingskap beoefen moet word, met spesiale aandag aan veilige hantering en versorging van handgereedskap, giftige en vlambare gasse, vloeistowwe en gasse wat onder druk verkeer, elektriese installasies, masjiënbeskerming, masjiën- en lugdrukgereedskap, slypwiele, bewegende en oorhoofse masjinerie en gebruik van draagbare brandblussers. Teorie en praktyk van eerstehulp.	50

* Oorblywende leertyd.

Logboek-simbool	Soort werk	Praktiese opleiding	Getal ure aanbeveel vir onderrig in elke soort werk
2.0	Kennis van:		100
2.1	Hand- en werkwinkelgereedskap	Versorging en gebruik van gereedskap. Vervaardiging van werkstukke en/of dele deur gebruik te maak van die tegnieke afbeiteling, boor, vyl, ruim, saag, skraap, buitendraadsnyding en moerdraadsnyding. Skerpmaak van snygereedskap. Gebruik van trekbout en perse. Afwerking, haaks maak, kontrolering en montering van wiele op slypmasjiene. Gebruik van vasheg-, sluit- en seëltoestelle.	
2.2	Braseer-, soldeer- en sweiswerk	Kennis en gebruik van gas- en elektriese sweis-, en soldeerprosesse. Uitgloeing van materiale.	90
2.3	Tekeninge	Lees en interpreteer van tekeninge in werkwinkelhandboeke en bulletins.	60
3.0	Krageenheid	Kennis van funksionering en verskillende vorme van energie. Kennis van werking van petrolenjins.	156
3.1	Stelsels	Funksionering en samestelling van brandstof-, uitlaat-, verkoeling- en smeerstelsels.	156
3.2	Elektriese beginsels	Kennis van batterye, volt, ampère, ohm en watt. Kennis van magnetisme. Funksionering van verdeler, magneto's, spoel en vonkproppe. Basiese kennis van aansitmotore, alternators en reëlaars.	140
3.3	Koeël-, rol- en babbittmetaallaers	Kennis van tipes laers in gebruik in die motornywerheid. Die maak van eenvoudige berekeninge. Identifisering van gelyste en foutiewe laers.	116
4.0	Koppelaars	Kennis van alle tipes koppelaars in gebruik in die motorfietsnywerheid.	124
4.1	Ratkaste	Kennis van basiese ratkasbeginsels. Berekening van eenvoudige ratverhoudings. Kennis en identifisering van verskillende tipes ratstelsels.	132
4.2	Dryfasse	Kennis van funksie van dryfasse. Soorte koppelings. Gebruik van smeermiddels. Kennis van funksie van kettingratte en kettings. Eenvoudige verhoudings bereken.	132
4.3	Eindaandrywing	Kennis van teorie van kroon- en kleinrataangedrewe agterasse. Berekening van eenvoudige verhoudings. Gebruik van wyserplaattoetsers. Kennis en identifisering van ewenaartipes en tipes asse. Verwydering en terugplasing van agterwiellaars.	140
4.4	Wiele en bande	Identifisering van tipes wiele, velling- en bandgroottes, oorsake van bandslytasie en bandbreuk. Verwydering, verstelling en terugplasing van voorwiellaars. Afhaal en terugplasing van wiele, buite- en binnebande. Balansering van wiele.	132
4.5	Vering en stuurstelsels	Kennis van samestelling van kronkelvere en skokbrekerekenehede. Identifisering van alle seksies van vering algemeen in gebruik in die motorfietsnywerheid.	70
4.6	Remme	Kennis van wrywingswette en vermoë om samestelling van wrywingsmateriale te identifiseer. Vermoë om remstelsels wat algemeen in die motornywerheid gebruik word, korrek te verwyder, terug te plaas en te verstel.	70
5.1	Smering en versiening	Aanwending van onderhoudskedules, smeermiddels en materiale. Onderhoud van batterye en filters.	132
5.2	Verkoelingstelsels	Onderhoud van verkoelingstelsels.	132
5.3	Instelling van enjins	Loopspeed- en kleinere instellings, soos byvoorbeeld vergassers, ontstekingstyd, vonkproppe, verdelerpunte en tydreëling.	132
5.4	Vervanging en versiening van komponente	Verwydering en terugplasing van enjinsamestelle en dele soos verkoeling-, brandstof-, elektriese en uitlaatstelsels, koppelaars, ratkaste, dryfasse, kruiskoppelings, kettingratte en kettings, agterasmiddelstukke en -samestelle, voorste en agterste veringkomponente, meganiese en hidrouliese remkomponente, voorste en agterste wiellaars, en elektriese ligstelsels. Diagnostisering en onderskeiding van noodsaaklikheid van vervanging of opknapping van verslyte dele.	639
5.5	Tekeninge en diagramme	Die maak van tekeninge van meganiese dele en basiese elektriese stroombane. Lees en interpreteer van tekeninge, tekens en simbole, en basiese bedradingsdiagramme.	90
6.1	Gevorderde praktiese opleiding:		
6.2	Enjineenhede—versiening en pas van dele	Aftakeling en volledige inmeekaarsit van enjin, insluitende versiening en pas van die volgende dele: Suiers, ringe en suierpenne, hoof- en grootkoplaars, silinderkoppe en klepgange.	281
6.3	Inspeksie en vasstelling van slytasie	Vasstelling en identifisering van foute in silinders, op krukasse, hoof- en grootkop-tappe, nokastappe, klepgange en silinderkoppe.	281
6.4	Vasstelling van slytasie en opknapping van stelsels en eenhede	Opknop, vasstelling van slytasie, weer inmeekaarsit en verstel waar nodig van koppelaars, ratkaste, dryfasse, kettingratte en kettings, eindaandrywing, voor- en agterassamestelle, stuurkaste en skakelaars, veringstelsels en remstelsels. Lokalisering van foute deur sistematiese foutspeuring en verstelling en/of vervanging van geslyte of foutiewe komponente en onderdele. Herstel en/of vervanging van foutiewe samestelle.	282
6.5	Lynrigting van onderstelraam en swaaiarm	Kennis van onderstelraam- en swaaiarmlynrigting.	80
6.6	Toetstoerusting en meters	Korrekte gebruik van vakuummeter, kompressietoetsers, ameter, voltmeter, tagometer en rushoekmeter, tydreëligte, uitlaagtasontleders, kondensator- en spoeltoetsers, vonkpropskoonmakers en -toetsers.	200
6.7	Groot versiening	Uitvoer van groot instellings van vergassers en ontstekingstelsels.	200
6.8	Hersiening en selfstandig werk		*

* Oorblywende leertyd.

Logboek-simbool	Soort werk	Praktiese opleiding	Getal ure aanbeveel vir onderrig in elke soort werk
5. AMBAG: MOTORVOERTUIGBAKHERSTELLER (1)			
1.1	Inleiding tot die bedryf	Verantwoordelikhede, voorkoms en houding in werksituasie.	28
1.2	Veiligheid	Basiese veiligheidsmaatreëls van toepassing in die ambag wat gedurende vakleerlingskap beoefen moet word, met spesiale aandag van veilige hantering en versorging van handgereedskap, giftige en vlambare gasse, vloeistowwe en gasse wat onder druk verkeer, elektriese installasies, masjienbeskerming, masjien- en lugdrukgereedskap, slypwiele, bewegende en oorhoofse masjinerie en die gebruik van draagbare brandblussers. Teorie en praktyk van eerstehulp.	50
2.0	Kennis van:		
2.1	Hand- en werkswinkelgereedskap	Versorging en gebruik van gereedskap. Tegnieke van boor, vyl, saag, buitendraadinsnyding en moerdradinsnyding. Skerpmaak van snygereedskap. Gebruik van trekbout. Afwerking, haaks maak, kontroliering en montering van wiele op slypmasjiene. Gebruik van vasheg-, sluit- en seëltoestelle. Hantering, regte gebruik en versorging van gereedskap en uitrusting, insluitende—kloplese, hamers en klopgereedskap, hefboome, lepels, sleutels, ponsse, beitels, klemme, veegblokke, vyl en skuurpapier, verhitingslampe en gasbranders, elektriese bore en klinkmasjiene, elektriese slypers, stok- en snymoere. Gebruik van "Portopower"-domkragte en hulle werkonderdele, soos verlengstawe, bo- en onderdrukgereedskap, ooprekkers en sekondêre domkragte en hulle steunstawe, swaar hidrouliese domkragte en hulle bykomende onderdele vir verankering, vormrekking, trek en vassit, insluitende verankering en gebruike van klemme. Meters om onderstelle en monokonstruksiebakke mee in lyn te stel.	830
3.1	Herstelwerk	Afhaal van beskadigde dele van bakwerk en herstel van sodanige dele en hulle hegstukke met die oog op latere terugplasing. Eenvoudige paneelklopwerk aan die voertuig en aan dele wat van die voertuig afgehaal is. Basiese veegwerk, vyl en slyp. Verhitting, sny, sweis en sweissoldeer van gewone plaatyster met asetleengasbranders en verhitting met blaaslamp. Sweis van allooi en soldeerwerk. Opvul van duike met sinkallooi en/of plastiek. Eenvoudige elektriese sweiswerk.	830
4.1	Meer gevorderde opleiding	Elementêre spuitverfwerk. Onderrig en oefening in die rek en krimp van plaatmetaal, met inbegrip van verduidelikings oor die effek daarvan. Gevorderde veegwerk, vyl, slyp en opvul met soldeersel of plastiek. Toets en herstel van brandstoftens met die nodige voorsorgmaatreëls wat getref moet word teen ontploffings en brande. Herstel van verkoelertens en die doen van kleinere herstel werk aan koelbuise en -vinne. Afhaal en terugsit van bakpanele en plaatmetaaldele en installeer van nuwe panele van ander dergelike onderdele. Deure en vensterrame haaks insit en korrekte openings en vry ruimtes hiervoor verseker. Deure weer hang met verstellings aan skarniere, aandag geen aan vry ruimtes, deurslotte en klapslotplate herpas en stel. Sponnings aansit. Verbetering van bakverwringing in gesteunde en monokonstruksiebakke. Onderdele soos modderskerms en deurpanele pas. Herstel en weer vorm van metaalprofile, ingeboude lyswerk, deur- en vensterrame en metaalsierstroke. Gevorderde asetleensweiswerk aan staal en allooi, met inbegrip van elektriese sweiswerk. Planering en afwerking van panele voor die verfafwerking. Afhaal en terugsit van veringeenhede. Stof- en waterdigmaak van bakke wat vroeër inmeekaarsit en heelgemaak is. Herstel en installering van vensters, venstermeganismes, ruitslingers, deurhandvatsels, deurslotte en deurpanele. Verhitting, herfatsoenering en afwerking van dik- en staafmetaalstukke soos buffers, bufferankers en ondersteldele. Onderstelle regitmaak en in lyn stel. Finale inmeekaarsit en inspeksie vir ware passing, volle aantal hegstukke en korrektheid van handgevormde dele ten opsigte van mekaar. Basiese beginsels van elektriese beligting. Toets vir behoorlike verbindings en werkdele in elektriese toebehore en ligte. Koplampe instel. Basiese kennis van stuurgeometrie.	1 662
5.1	Hersiening en selfstandig werk		*
6. AMBAG: MOTORVOERTUIGBEKLEDER (5)			
1.1	Inleiding tot die bedryf	Verantwoordelikhede, voorkoms en houding in werksituasie.	28
1.2	Veiligheid	Basiese veiligheidsmaatreëls van toepassing in die ambag wat gedurende vakleerlingskap beoefen moet word, met spesiale aandag aan veilige hantering en versorging van handgereedskap, giftige en vlambare gasse, vloeistowwe en gasse wat onder druk verkeer, elektriese installasies, masjienbeskerming, masjien- en lugdrukgereedskap, slypwiele en gebruik van draagbare brandblussers. Teorie en praktyk van eerstehulp.	50
1.3	Kennis van sweis- en ander prosesse	Kennis en gebruik van basiese sweis-, gassweis- en boogswaisprosesse. Uitmekaar haal van kappe, sitplekke, koepelvoerings, deur- en bakbekledingspanele. Opstop van sitplekke en insit van sitplekvere. Skoonmaak, olie en stel van naaimasjiene.	575
1.4	Meer gevorderde opleiding	Kennis van chemiese klefmiddels. Veiligheidsmaatreëls. Afmerk en uitsny volgens werkpatrone, monsters of tekeninge. Gebruik van die regte materiaal. Vervaardiging en herstel van sitplekke, rugleuningkussings, deurbekleedsels, kap- en dakvoerings, vinieelbedekkings en motormatte. Verwydering en terugplasing van ruitslingermeganismes en deurslotte. Pas van ruitsponning. Stof- en waterdigting van motorvoertuie.	2 227
2.1	Hersiening en selfstandig werk		*
7. AMBAG: MOTORVOERTUIGELEKTRISIËN (2)			
1.1	Inleiding tot die bedryf	Verantwoordelikhede, voorkoms en houding in werksituasie.	28

* Oorblywende leertyd.

Logboek-simbool	Soort werk	Praktiese opleiding	Getal ure aanbeveel vir onderrig in elke soort werk
1.2	Veiligheid	Basiese veiligheidsmaatreëls van toepassing in die ambag wat gedurende vakleerlingskap beoefen moet word, met spesiale aandag aan die veilige hantering en versorging van handgereedskap, giftige en vlambare gasse, vloeistowwe en gasse wat onder druk verkeer, elektriese installasies, masjienbeskerming, masjien- en lugdrukgereedskap, slypwiele, bewegende en oorhoofse masjinerie, en die gebruik van draagbare brandblussers. Teorie en praktyk van eerstehulp.	50
2.0	Kennis van:		
2.1	Hand- en werkwinkelgereedskap	Versorging en gebruik van gereedskap. Vervaardiging van werkstukke en/of dele deur gebruik te maak van die tegnieke afbuiteling, boor, vyl, ruim, saag, skraap, buitendraadinsnyding en moerdraadinsnyding. Skerpmaak van snygereedskap. Gebruik van klein trekboutte en draspilperse. Afwerking, haaks maak, kontrolering en montering van wiele op slypmasjiene. Gebruik van vasheg-, sluit- en seëltoestelle. Gebruik van en voorsorgmaatreëls in verband met elektriese meetapparaat.	100
2.2	Braseer-, soldeer- en sweiswerk	Kennis en gebruik van gas- en elektriese sweissoldeerprosesse.	90
2.3	Tekeninge	Lees en interpreteer van elektriese diagramme in werkwinkelhandboeke en bulletins.	60
3.1	Krageenheid	Kennis van funksionering en verskillende vorme van energie en die werking van binnebrandenjins.	156
3.2	Elektriese beginsels	Kennis van batterye, volt, ampère, ohm, watt en magnetisme en die werking van parallelsakelaars. Funksionering van verdeler, spoel en vonkproppe. Elementêre kennis van aansitmotore, alternators, generators, reëlaars, voorverhit- en ander elektriese koudaansitotestelle. Kennis van elektroniese ontstekingstelsels. Elementêre kennis van meganiese brandstofinspuitsels. Kennis van elektroniese brandstofinspuitsels.	756
3.3	Koeël- en rollaers	Kennis van tipes laers in gebruik in die motornywerheid. Eenvoudige berekeninge maak en geslyte en foutiewe laers identifiseer.	60
3.4	Batterye	Instandhouding van batterye—diens, laai, toets, seël; diagnose en interne ondersoek van vinnige en stadige batterylaaers.	600
4.1	Meer gevorderde opleiding	Toets, diens, herstel en verstelling van uitskakelaars, reëlaars, solenoïedskakelaars, paneelinstrumente, stroombane, skakelaars, lampe en toeters, verwarmers, relêrs, reostate, rigtingwysers, ruitveermotore, elektriese brandstofpompe, elektriese transmissiekontroles en alternators en hul reëlaars. Opknop en toets van aansitmotore en aansit-teraaandrywings. Diens, toets en tydreëling van magneto's. Opknop, toets en polariseer van generators. Herbedrading van motorvoertuie en lees van bedradingsdiagramme. Foutspeuring: Nagaan vir oopstroombane, kortsluitings, aarding, weerstand en spanningsval. Insit van motorradio's en lugdrade. Insit van spoedbeheerstelsels.	1 500
5.1	Hersiening en selfstandig werk		*
8. AMBAG: MOTORVOERTUIGENJINMONTEUR (3)			
1.1	Inleiding tot die bedryf	Verantwoordelikhede, voorkoms en houding in werksituasie.	28
1.2	Veiligheid	Basiese veiligheidsmaatreëls van toepassing in die ambag wat gedurende vakleerlingskap beoefen moet word, met spesiale aandag aan veilige hantering en versorging van handgereedskap, giftige en vlambare gasse, vloeistowwe en gasse wat onder druk verkeer, elektriese installasies, masjienbeskerming, masjien- en lugdrukgereedskap, slypwiele, bewegende en oorhoofse masjinerie en gebruik van draagbare brandblussers. Teorie en praktyk van eerstehulp.	50
2.0	Kennis van:		
2.1	Hand- en werkwinkelgereedskap	Versorging en gebruik van gereedskap. Vervaardiging van werkstukke en/of dele deur gebruik te maak van afbuiteling, boor, vyl, ruim, saag, skraap, buitendraadinsnyding en moerdraadinsnyding. Skerpmaak van snygereedskap. Gebruik van trekboutte en perse. Afwerking, haaks maak, kontrolering en montering van wiele op slypmasjiene. Uitgloeing van materiaal. Gebruik van vasheg-, sluit- en seëltoestelle en meetgereedskap. Vervaardiging van pakstukke.	100
2.2	Braseer-, soldeer- en sweiswerk	Kennis en gebruik van gas-, elektriese sweis- en soldeerprosesse.	90
2.3	Tekeninge	Lees en interpreteer van tekeninge in werkwinkelhandboeke en bulletins.	100
3.0	Krageenheid	Kennis van funksionering en verskillende vorme van energie, en die werking van petrol-enjins en dieselenjins.	150
3.1	Stelsels	Kennis van funksionering en samestelling van die volgende stelsels: Brandstof-, uitlaat-, turboaanjaer-, verkoeling-, smeer-, inspuits-, inspuitspomp-, kompressor-, vakuumpomp- en uitlaatremsels.	150
3.2	Elektriese beginsels	Kennis van batterye, volt, ampère, ohm en watt. Magnetisme en die werking van parallelsakelaars. Kennis van funksionering van verdeler, spoel en vonkproppe. Elementêre kennis van aansitmotore, alternators, generators, reëlaars, voorverhit- en ander koudaansitstelsels.	100
3.3	Koeël-, rol- en babbittmetaallaers	Kennis van tipes laers in gebruik in die motornywerheid. Eenvoudige berekeninge maak en identifisering van geslyte en foutiewe laers.	100
4.0	Koppelaars	Kennis van alle tipes koppelaars in gebruik in die motornywerheid.	100
5.0	Instelling van enjins	Loopspoed- en kleinere instellingverstellings, bv. vergassers, ontsteking, vonkproppe, verdelerpunte, verstelling van luierstelsels en terugvoerafsluittydreëling.	300

* Oorblywende leertyd.

Logboek-simbool	Soort werk	Praktiese opleiding	Getal ure aanbeveel vir onderrig in elke soort werk
5.1	Gevorderde praktiese opleiding	Aftakeling en inmeekaarsit van petrol- en dieselenjins, insluitende opknop en pas van die volgende dele: Suierlinge, suierpenne, hoof- en grootkoplaers, silinderkoppe, klepgange, turboaanjaers en enjinhulpkomponente, maar nie inspuitspompe nie.	1 222
5.2	Inspeksie en vasstelling van slytasie	Lokalisering en identifisering van foute in silinders, op krukas, hoof- en grootkop-tappe, nokastappe, klepgange, silinderkoppe, turboaanjaers en enjinhulpkomponente, maar nie inspuitspompe nie.	380
6.0	Toetstoerusting en meters	Korrekte gebruik van vakuummeter, kompressietoetser, ammeter, voltmeter, tago- en rushoekmeter, brandstofpompdrukmeter, tydreëlligte, uitlaatgasontleders, kondensator- en spoeltoetser en vonkproskoonmakers en -toetsers.	180
6.1	Grootversiening	Uitvoer van groot instellings, insluitende die opknop van brandstofpompe, vergassers en ontstekingsstelsels. Toets van enjins met dinamometer.	350
6.2	Hersiening en selfstandige werk		*
9. AMBAG: MOTORVOERTUIGMASJINWERKER (4)			
1.1	Inleiding tot die bedryf	Verantwoordelikhede, voorkoms en houding in werksituasie.	28
1.2	Veiligheid	Basiese veiligheidsmaatreëls van toepassing in die ambag wat gedurende vakleerlingskap beoefen moet word, met spesiale aandag aan veilige hantering en versorging van handgereedskap, giftige en vlambare gasse, vloeistowwe en gasse wat onder druk verkeer, elektriese installasies, masjienbeskerming, masjien- en lugdrukgereedskap, slypwiele, bewegende en oorhoofse masjinerie en gebruik van draagbare brandblussers. Teorie en praktyk van eerstehulp.	50
2.0	Kennis van:		
2.1	Hand- en werkwinkelgereedskap	Versorging en gebruik van gereedskap. Vervaardiging van werkstukke en/of dele deur gebruik te maak van die tegnieke afbeiteling, boor, vyl, ruim, saag, skraap, buitedraadinsnyding en moerdraadsnyding. Skerpmaak van snygereedskap. Gebruik van trekbout en perse. Afwerking, haaks maak, kontroliering en montering van wiele op slypmasjiene. Gebruik van vasheg-, sluit- en seëltoestelle.	100
2.2	Braseer-, soldeer- en sweiswerk	Kennis en gebruik van gas- en elektriese sweising, lood- en silwersweis-soldeerprosesse.	90
2.3	Tekeninge	Lees en interpreteer van tekeninge in werkwinkelhandboeke en bulletins.	60
3.0	Krageenheid	Kennis van funksionering en verskillende vorms van energie en werking van binnebrandenjins.	220
3.1	Stelsels	Elementêre kennis van die funksionering en samestelling van brandstof-, uitlaat-, verkoeling- en smeerstelsels.	220
3.2	Meet	Gevorderde kennis van die versorging en gebruik van meetinstrumente soos wysersplaat-toetsers en mikrometertipes.	300
4.1	Koeël-, rol- en babbittmetaallaers	Kennis van alle tipes laers in gebruik in die motornywerheid. Eenvoudige berekeninge maak en identifisering van geslyte en foutiewe laers.	400
5.1	Basiese werk	Verrigting van eenvoudige take op enkeldoelmasjiene. Eenvoudige draaibank- en frees-masjienwerk.	300
6.1	Meer gevorderde werk	Kennis van werking van en vermoë om die volgende masjiene te bedien: Herslyp- en slypmasjiene, vlakslypers, krukslypers, toerusting om enjindele te balanseer, kraakspeurders, klepbeddings en klepvlakslypers. Vermoë om klepinlaatbeddings te maak en hulle te pas en pas van klepleiers en suierpenne. Herbepaling van grootte en rig van suierstange. Vermoë om enjins aanmekeer te sit.	1 532
7.1	Hersiening en selfstandig werk		*
10. AMBAG: MOTORWERKTUIGKUNDIGE (10)			
1.1	Inleiding tot die bedryf	Verantwoordelikhede, voorkoms en houding in werksituasie.	28
1.2	Veiligheid	Basiese veiligheidsmaatreëls van toepassing in die ambag wat gedurende vakleerlingskap beoefen moet word, met spesiale aandag aan veilige hantering en versorging van handgereedskap, giftige en vlambare gasse, vloeistowwe en gasse wat onder druk verkeer, elektriese installasies, masjienbeskerming, masjien- en lugdrukgereedskap, slypwiele, bewegende en oorhoofse masjinerie en gebruik van draagbare brandblussers. Teorie en praktyk van eerstehulp.	50
2.0	Kennis van:		
2.1	Hand- en werkwinkelgereedskap	Versorging en gebruik van gereedskap. Vervaardiging van werkstukke en/of dele deur gebruik te maak van die tegnieke afbeiteling, boor, vyl, ruim, saag, skraap, buitedraadinsnyding en moerdraadsnyding. Skerpmaak van snygereedskap. Gebruik van trekbout en perse. Afwerking, haaks maak, kontroliering en montering van wiele op slypmasjiene. Gebruik van vasheg-, sluit- en seëltoestelle.	100
2.2	Braseer-, soldeer- en sweiswerk	Kennis en gebruik van gas- en elektriese sweis- en soldeerprosesse. Uitgloeïing van materiaal.	90
2.3	Tekeninge	Lees en interpreteer van tekeninge in werkwinkelhandboeke en bulletins.	60
3.0	Krageenheid	Kennis van funksionering en verskillende vorme van energie en die werking van petrol-enjins.	156

* Oorblywende leertyd.

Logboek-simbool	Soort werk	Praktiese opleiding	Getal ure aanbeveel vir onderrig in elke soort werk
3.1	Stelsels	Funksionering en samestelling van brandstof-, uitlaat-, verkoeling- en smeerstelsels.	156
3.2	Elektriese beginsels	Kennis van battery, volt, ampère, ohm, watt en magnetisme. Funksie van verdelers, spoel en vonkproppe. Elementêre kennis van aansitmotore, alternators, generators en reëlaars.	140
3.3	Koel-, rol- en babbittmetaallaers	Kennis van tipes laers in gebruik in die motornywerheid. Die maak van eenvoudige berekeninge. Identifisering van geslyte en foutiewe laers.	116
4.0	Koppelaars	Kennis van alle tipes koppelaars in gebruik in die motornywerheid.	124
4.1	Ratkaste	Kennis van eenvoudige ratkasbeginsels. Berekening van eenvoudige ratverhoudings. Kennis en identifisering van verskillende soorte ratstelsels.	132
4.2	Dryfasse	Kennis van funksie van dryfasse en soorte koppelings. Gebruik van smeermiddels. Verwydering en terugplasing van kruiskoppelings.	132
4.3	Eindaandrywing	Kennis van teorie van wurmaandrywing, kroon- en kleinrataangedrewe agterasse. Berekening van eenvoudige verhoudings. Gebruik van wyserplaattoetsers. Kennis en identifisering van ewenaarstelsels en tipes asse. Verwydering en terugplasing van agterwiel-laers.	140
4.4	Wiele en bande	Identifisering van tipes wiele, vellings en bandgroottes, oorsake van bandslytasie en bandbreuk. Verwydering, verstelling en terugplasing van voorwiellaers. Verwydering en terugplasing van wiele, buite- en binnebande. Balansering van wiele.	132
4.5	Vering en stuurstelsels	Kennis van samestelling van blad- en kronkelvere, wringstawe en skokbrekers. Identifisering van alle seksies van voorveringstelsels algemeen in gebruik in die motornywerheid. Kennis van samestelling en vermoë om geslyte sektor- en tandstang-en-kleinratstuurstelsels te identifiseer.	140
4.6	Stuurgeometrie	Kennis van volledige stuurgeometrie van motorvoertuie algemeen in gebruik in die motornywerheid.	140
4.7	Remme	Kennis van wrywingswette en vermoë om samestelling van wrywingsmateriale te identifiseer. Kennis van werking van eenvoudige remversterker. Vermoë om remstelsels wat algemeen in die motornywerheid gebruik word, korrek te verwyder, terug te plaas en te verstel.	140
5.1	Smering en versiening	Aanwending van onderhoudskedules, smeermiddels en materiale. Onderhoud van batterye en filters.	132
5.2	Verkoelingstelsels	Onderhoud van verkoelingstelsels.	132
5.3	Instelling van enjins	Loopspoed- en kleinere instellings, bv. vergassers, onstekingstyd, vonkproppe, verdelepunte en tydreëling. Kennis van brandstofinspuitstelsels en elektroniese onstekingstelsels.	132
5.4	Vervanging en diens van komponente	Verwydering en terugplasing van enjinsamestelle en dele van stelsels soos verkoeling-, brandstof-, elektriese en uitlaatstelsels; koppelaars, ratkaste, dryfasse, kruiskoppelings, agterasmiddelstukke en -samestelle, voorste en agterste veringkomponente; meganiese en hidrouliese remkomponente; voor- en agterwiellaers; en elektriese ligstelsel. Diagnostisering en onderskeiding van noodsaaklikheid van vervanging of opknapping van verslyte dele.	448
5.5	Sleep en herwinning van voertuie	Ondervinding in elementêre sleep en herwinning van voertuie.	448
5.6	Tekeninge en diagramme	Die maak van tekeninge van meganiese dele en elementêre outo-elektriese stroombane. Lees en interpreteer van tekeninge, tekens en simbole, en basiese bedradingsdiagramme.	90
6.1	Gevorderde praktiese opleiding		
6.2	Enjineenhede—opknapping en pas van dele	Aftakeling en volledige inmeekaarsit van enjin, insluitende opknapping en pas van dele soos suiers, ringe en suierpenne, hoof-en grootkoplars, silinderkoppe en klepgange.	447
6.3	Inspeksie en vasstelling van slytasie	Lokalisering en identifisering van foute in silinders, op krukas, hoof-en grootkoptappe, nokastappe, klepgange en silinderkoppe.	447
6.4	Vasstelling van slytasie en opknapping van stelsels en eenhede	Opknapping, vasstelling van slytasie, weer inmeekaarsit en verstel waar nodig—koppelaars, ratkaste, dryfasse, eindaandrywing, voor-en agterassamestelle, stuurkaste en skakelings, veringstelsels, remstelsels. Lokalisering van foute deur sistematiese foutsoeking en verstelling en/of vervanging van geslyte of foutiewe komponente en dele. Herstel en/of vervanging van foutiewe samestellings.	201
6.5	Stuurgeometrie	Kennis en vermoë om volledige stuurgeometrie van voertuie algemeen in gebruik in die motornywerheid terug te stel.	46
6.6	Toetstoerusting en meters	Korrekte gebruik van vakuummeter, kompressietoetsers, ammeter, voltmeter, tago-en-rushoekmeter, brandstofpompdrukmeter, tydreëllig, uitlaatgasontleders, kondensator- en spoeltoetsers, vonkpropskoonmakers en -toetsers.	200
6.7	Groot versiening	Uitvoer van groot instellings van brandstofpompe, vergassers en onstekingstelsels.	200
6.8	Hersiening en selfstandig werk		*
11. AMBAG: PASSER EN DRAAIER (7)			
1.1	Inleiding tot die bedryf	Verantwoordelikhede, voorkoms en houding in werksituasie.	28
1.2	Veiligheid	Basiese veiligheidsmaatreëls van toepassing in die ambag wat gedurende vakleerlingskap beoefen moet word, met spesiale aandag aan veilige hantering en versorging van handgereedskap, giftige en vlambare gasse, vloeistowwe en gasse wat onder druk verkeer, elektriese installasies, masjienbeskerming, masjien- en lugdrukgereedskap, slypwiele, bewegende en oorhoofse masjinerie en gebruik van draagbare brandblussers. Teorie en praktyk van eerstehulp.	50

* Oorblywende leertyd.

Logboek-simbool	Soort werk	Praktiese opleiding	Getal ure aanbeveel vir onderrig in elke soort werk
2.0	Kennis van:		
2.1	Hand- en werkwinkelgereedskap	Versorging en gebruik van gereedskap. Vervaardiging van werkstukke en/of dele deur gebruik te maak van die tegnieke afbeiteling, boor, vyl, ruim, saag, skraap, buitedraadinsnyding en moerdraadsnyding. Skerpmaak van snygereedskap. Gebruik van trekbout en perse. Afwerking, haaks maak, kontrolering en montering van wiele op slypmasjiene. Gebruik van vasheg-, sluit- en seëltoestelle.	
2.2	Braseer-, soldeer- en sweiswerk	Kennis en gebruik van gas-, elektriese sweis- en soldeerprosesse. Uitgloeing van materiaal.	90
2.3	Materiale	Kennis van samestelling, fisiese eienskappe en gebruik van metale algemeen in gebruik in die motornywerheid.	300
3.1	Tekeninge	Lees en interpreteer van tekeninge in werkwinkelhandboeke, bulletins en bloudrukke.	100
4.1	Meet	Gevorderde kennis van versorging en gebruik van meetinstrumente soos wyserplaat-toetsers en tipes mikrometers.	100
5.1	Basiese werk	Eenvoudige draaibank en freesmasjienwerk. Korrekte gebruik van voer en spoed vir verskillende materiale en take.	350
6.1	Meer gevorderde werk	Pas van komponente. Maak van dele volgens tekeninge. Algemene paspraktyk, insluitende inmeekaarsit van dele. Herstel en instandhouding van masjinerie en toerusting. Gevorderde senterdraaibankwerk, insluitende draadsnywerk.	2 282
7.1	Hersiening en selfstandig werk		*
12. AMBAG: SPUITVERWER (11)			
1.1	Inleiding tot die bedryf	Verantwoordelikhede, voorkoms en houding in werksituasie.	28
1.2	Veiligheid	Basiese veiligheidsmaatreëls van toepassing in die ambag wat gedurende vakleerlingskap beoefen moet word, met spesiale aandag aan veilige hantering en versorging van handgereedskap, giftige en vlambare gasse, vloeistowwe en gasse wat onder druk verkeer, elektriese installasies, masjienbeskerming, masjien- en lugdrukgereedskap, slypwiele, bewegende en oorhoofse masjinerie en gebruik van draagbare brandblussers. Teorie en praktyk van eerstehulp.	50
1.3	Kennis van spuitverfwerk en materiale in gebruik	Verf afhaal, oppervlakke afskuur en onsuierhede verwyder. Basiese kleurtintformules. Algemene versorging van sproeispuite en kompressors. Maskering en bedekking van dele wat nie geverf moet word nie. Kennis van basiese letterskildering.	575
2.1	Meer gevorderde spuitverfwerk	Bereiding van oppervlakke, insluitende aanwending van stopverf, grond- en deklak. Meng van verf en kleure bymekaar laat pas. Oefening in gebruik van tintometer. Aansit van verf met verfspuit en kwas. Uitkenning en gebruike van verskillende soorte emalje, lak- en akrielhars en hul uitwerking op mekaar. Gebruik van verskillende oplosmiddels en droërs. Kennis van onderlaag- en helderlaagbeginsels. Diagnostisering van foutiewe paneelklopwerk.	2 227
3.1	Hersiening en selfstandig werk		*
13 AMBAG: TREKKER- EN LANDBOUMASJINERIEWERKTUIGKUNDIGE (13)			
1.1	Inleiding tot die bedryf	Verantwoordelikhede, voorkoms en houding in werksituasie.	28
1.2	Veiligheid	Basiese veiligheidsmaatreëls van toepassing in die ambag wat gedurende vakleerlingskap beoefen moet word, met spesiale aandag aan veilige hantering en versorging van handgereedskap, giftige en vlambare gasse, vloeistowwe en gasse wat onder druk verkeer, elektriese installasies, masjienbeskerming, masjien- en lugdrukgereedskap, slypwiele, bewegende en oorhoofse masjinerie en gebruik van draagbare brandblussers. Teorie en praktyk van eerstehulp.	50
2.0	Kennis van:		
2.1	Hand- en werkwinkelgereedskap	Versorging en gebruik van gereedskap. Vervaardiging van werkstukke en/of dele deur gebruik te maak van die tegnieke afbeiteling, boor, vyl, ruim, saag, skraap, buitedraadinsnyding en moerdraadsnyding. Skerpmaak van snygereedskap. Gebruik van trekbout en perse. Afwerking, haaks maak, kontrolering en montering van wiele op slypmasjiene. Gebruik van vasheg-, sluit- en seëltoestelle.	100
2.2	Braseer-, soldeer- en sweiswerk	Kennis en gebruik van gas- en elektriese sweis- en soldeerprosesse. Uitgloeing van materiaal.	90
2.3	Tekeninge	Lees en interpreteer van tekeninge in werkwinkelhandboeke en bulletins.	60
3.0	Krageneheid	Kennis van funksionering en verskillende vorme van energie, en die werking van kompresieontstekingsenjins.	156
3.1	Stelsels	Funksionering en samestelling van brandstof-, uitlaat-, turboaanjaer-, verkoeling- en smeerstelsels, vakuumpompe en lugkompressors, inspuiter en inspuiterpompe en uitlaatremsels.	166
3.2	Elektriese beginsels	Kennis van battery, volt, ampere, ohm, watt en magnetisme. Kennis van werking van parallelsakelaars. Basiese kennis van aansitmotore, alternators, generators, reëlaars, voorverhit- en ander koudaansittoestelle.	130
3.3	Koël-, rol- en babbittmetaallaers	Kennis van soorte laers in gebruik in die motornywerheid. Eenvoudige berekeninge maak. Identifisering van geslyte en foutiewe laers.	116
4.0	Koppelaars	Kennis van alle tipes koppelaars in gebruik in die motornywerheid.	124
4.1	Ratkaste	Kennis van eenvoudige ratkasbeginsels. Berekening van eenvoudige ratverhoudings. Kennis en identifisering van verskillende soorte ratstelsels.	132

* Oorblywende leertyd.

Logboek-simbool	Soort werk	Praktiese opleiding	Getal ure aanbeveel vir onderrig in elke soort werk
4.2	Dryfasse	Kennis van funksie van dryfasse. Soorte koppelings. Gebruik van smeermiddels. Verwydering en terugplasing van kruiskoppelings.	132
4.3	Eindaandrywing	Kennis van teorie van kroon- en kleinrataangedrewe agterasse, planetêre dryfstelsels en hidrouliese aandrywing. Berekening van eenvoudige verhoudings. Gebruik van wyser-plaattoetsers. Kennis en identifisering van ewenaarstelsels en tipes asse. Verwydering en terugplasing van agterwiellaars.	140
4.4	Wiele en bande	Identifisering van tipes wiele, vellings en bandgroottes, oorsake van bandslytasie en bandbreuk. Verwydering, verstelling en terugplasing van voorwiellaars. Verwydering en terugplasing van wiele en buite- en binnebande.	132
4.5	Vering en stuurstelsels	Kennis en identifisering van alle seksies van voorveringstelsels algemeen in gebruik in die motornywerheid. Kennis van samestelling en vermoë om geslyte stuurkasstelsels te identifiseer. Verstelling van wielwydtes.	140
4.6	Stuurgeometrie	Kennis van volledige stuurgeometrie van trekkers, stropers en selfaangedrewe eenhede algemeen in gebruik in die motornywerheid.	140
4.7	Remme	Kennis van wrywingswette en vermoë om samestelling van wrywingsmateriale te identifiseer. Kennis van werking van meganiese, hidrouliese en ander remstelsels algemeen in gebruik in die motornywerheid. Vermoë om remstelsels wat algemeen in die motornywerheid gebruik word, korrek te verwyder, terug te plaas en te verstel.	140
5.0	Smering en diens	Aanwending van onderhoudskedules, smeermiddels en materiale. Onderhoud van batterye, filters, pompe, kompressors en hidrouliese toerusting.	152
5.1	Verkoelingstelsels	Diagnosering en onderhoud van verkoelingstelsels.	152
5.2	Instelling van enjins	Verstelling van luierstelsels en terugvoerfluitdredeling.	152
5.3	Vervanging en versiening van komponente	Verwydering en terugplasing van enjinsamestelle, dele van verkoeling-, brandstof-, elektriese- en uitlaatstelsels, koppelaars, ratkaste, dryfasse, kruiskoppelings, agterastemiddelstukke en -samestelle, voorste en agterste veringkomponente. Meganiese en hidrouliese remkomponente. Voor- en agterwiellaars. Kennis van elektriese ligstelsel. Diagnosering en onderskeiding van die noodsaaklikheid van vervanging of opknapping van verslyte dele.	422
5.4	Sleep en herwinning van voertuie	Ondervinding in elementêre sleep en herwinning van voertuie.	422
5.5	Tekeninge en diagramme	Die maak van tekeninge van meganiese dele en basiese outo-elektriese stroombane. Tekeninge, tekens, simbole en basiese bedradingsdiagramme, lees en interpreteer.	90
6.1	Gevorderde praktiese opleiding		
6.2	Enjineenhede	Aftakeling en volledige inmeekaarsit van enjin, insluitende opknapping en pas van dele soos suiers, ringe en suierpenne, hoof- en grootkoplars, silinderkoppe, klepgange, voorverhitters en inspuisers.	300
6.3	Inspeksie en vasstelling van slytasie	Lokalisering en identifisering van foute in silinders, op krukasse, hoof- en grootkop-tappe, nokastappe, klepgange en silinderkoppe.	300
6.4	Vasstelling van slytasie en opknapping van stelsels en eenhede	Opknapping, bepaling van slytasie, inmeekaarsit en verstel waar nodig: Koppelaars, ratkaste, dryfasse, eindaandrywing, voorste en agterste assamestelle, stuurkaste en skakelings, remstelsels, hidrouliese hys- en kragenehede en ringspoorstelsels. Lokalisering van foute deur sistematiese foutspeuring en verstelling en/of vervanging van geslyte of foutiewe komponente en dele. Herstel en/of vervanging van foutiewe samestellings.	300
6.5	Toetstoerusting en meters	Korrekte gebruik van kompressietoets, ammeter, voltmeter en ohmmeter, brandstof-pompe, drukmeter, tydreëlligter en inspuisertoets.	300
6.6	Groot versiening	Uitvoer van groot versiening, brandstofpompe, inspuisers, voorverhitters, herinstelling van terugvoerfluitdredeling, uitlaat- en remstelsels.	300
6.7	Hersiening en selfstandig werk		*
14. AMBAG: TREKKERWERKTUIGKUNDIGE (14)			
1.1	Inleiding tot die bedryf	Verantwoordelikhede, voorkoms en houding in werksituasie.	28
1.2	Veiligheid	Basiese veiligheidsmaatreëls van toepassing in die ambag wat gedurende vakleerlingskap beoefen moet word, met spesiale aandag aan veilige hantering en versorging van handgereedskap, giftige en vlambare gasse, vloeistowwe en gasse wat onder druk verkeer, elektriese installasies, masjienbeskerming, masjien- en lugdrukgereedskap, slypwiele, bewegende en oorhoofse masjinerie en gebruik van draagbare brandblussers. Teorie en praktyk van eerste hulp.	50
2.0	Kennis van:		
2.1	Hand- en werkwinkelgereedskap	Versorging en gebruik van gereedskap. Vervaardiging van werkstukke en/of dele, deur gebruik te maak van die tegnieke afbeiteling, boor, vyl, ruim, saag, skraap, buitedraadsnyding en moerdraadsnyding. Skerpmaak van snygereedskap. Gebruik van trekbout en perse. Afwerking, haaks maak, kontroliering en montering van wiele op slypmasjiene. Kennis van vasheg-, sluit- en seëltoestelle.	100
2.2	Braseer-, soldeer- en sweiswerk	Kennis en gebruik van gas- en elektriese sweis- en soldeerprosesse. Uitgloeing van materiaal.	90
2.3	Tekeninge	Tekeninge in werkwinkelhandboeke en bulletins lees en interpreteer.	60
3.0	Krageneheid	Kennis van funksionering en verskillende vorme van energie en die werking van petrol- en dieselenjins.	156

Logboek-simbool	Soort werk	Praktiese opleiding	Getal ure aanbeveel vir onderrig in elke soort werk
3.1	Stelsels	Funksionering en samestelling van die volgende stelsels: Brandstof-, uitlaat-, turboaanjaers-, verkoeling- en smeerstelsels.	166
3.2	Eletriese beginsels	Kennis van batterye, volt, ampère, ohm, watt en magnetisme. Funksionering van magneto's, verdeler, spoel en vonkproppe. Basiese kennis van aansitmotore, alternators, generators en reëlaars. Koudaansit- en voorverhitstelsels.	140
3.3	Koeël-, rol- en babbittmetaallaers	Kennis van tipes laers in gebruik in die motornywerheid. Eenvoudige berekeninge maak. Identifisering van geslyte en foutiewe laers.	116
4.0	Koppelaars	Kennis van alle tipes koppelaars algemeen in gebruik in die motornywerheid.	124
4.1	Ratkaste	Kennis van eenvoudige ratkasbeginsels. Berekening van eenvoudige ratverhoudings. Kennis en identifisering van verskillende soorte ratstelsels.	132
4.2	Eindaandrywing	Kennis van teorie van kroon- en kleinrataangedrewe agterasse. Berekening van eenvoudige verhoudings. Gebruik van wyserplaattoetsers. Kennis en identifisering van ewenaarstelsels en tipes asse. Verwydering en terugplasing van agterwiellaars.	140
4.3	Wiele, buitebande en rusperbande	Identifisering van tipes wiele, vellings en bandgroottes, oorsake van bandslytasie en bandbreuk. Verwydering, verstelling en terugplasing van voorwiellaars. Verwydering en terugplasing van gewigte, wiele, buite- en binnebande. Kennis van kringspoorstelsels. Ballas van buitebande met gewigte en water.	140
4.4	Stuurstelsels	Identifisering van alle seksies van stuurstelsels algemeen in gebruik in die motornywerheid. Kennis van samestelling en vermoë om geslyte stuurstelsels te identifiseer. Terugstel van stuurgeometrie.	140
4.5	Remme	Kennis van wrywingswette en vermoë om samestelling van wrywingsmateriale te identifiseer. Vermoë om remstelsels wat algemeen in die motornywerheid gebruik word, korrek te verwyder, terug te plaas en te verstel.	140
5.1	Smering en versiening	Aanwending van onderhoudskedules, smeermiddels en materiale. Onderhoud van batterye en filters.	140
5.2	Verkoelingstelsels	Diagnose en onderhoud van verkoelingstelsels.	140
5.3	Instelling van enjins	Loopspeed- en kleinere instellings, bv. vergassers, ontstekingsstyd, vonkproppe, verdelerpunte, verstelling van luierstelsels en terugvoerafsluitdreef.	140
5.4	Vervanging en versiening van komponente	Verwydering en terugplasing van enjinsamestelle en dele soos verkoeling-, brandstof-, elektriese-, voorverhit- en uitlaatstelsels; koppelaars, ratkaste, dryfasse, kruiskoppellings, agterassmiddelstukke en -samestelle; meganiese en hidrouliese remkomponente; voor- en agterwiellaars; hidrouliese hystoerusting; ringspoorstelsels en elektriese ligstelsels. Diagnostisering en onderskeiding van die noodsaaklikheid van vervanging of verstelling van verslyte dele.	655
5.5	Sleep en herwinning van voertuie	Ondervinding in sleep en herwinning van voertuie.	655
5.6	Tekeninge en diagramme	Die maak van tekeninge van meganiese dele en basiese outo-elektriese stroombane. Tekeninge, tekens, simbole en basiese bedradingsdiagramme, lees en interpreteer.	90
6.1	Gevorderde praktiese opleiding		
6.2	Enjineenhede—opknapping en pas van dele	Aftakeling en volledige inmeekaarsit van enjin, insluitende opknapping en pas van die volgende dele: Suiers, ringe en suierpenne, hoof- en grootkoplaars, silinderkoppe en klepgange.	300
6.3	Inspeksie en vasstelling van slytasie	Lokalisering en identifisering van foute in silinders, op krukasse, hoof- en grootkop-tappe, nokaslaars, klepgange en silinderkoppe.	300
6.4	Vasstelling van slytasie en opknapping van stelsels en eenhede	Opknapping, bepaling van slytasie, weer inmeekaarsit en verstel waar nodig van; koppelaars, ratkaste, dryfasse, eindaandrywing, voor- en agterassamestelle, stuurkaste en skakelings, remstelsels, hidrouliese hulpstoerusting. Lokalisering van foute deur sistematiese foutspeuring en verstelling en/of vervanging van geslede of foutiewe komponente en dele. Herstel en/of vervanging van foutiewe samestellings.	365
6.5	Toerusting en motors	Korrekte gebruik van vakuummeter, kompressietoetsers, ammeters, voltmeters, ohmmeters, tago- en rushoekmeters, brandstofpompdrukmeters, tydreëlligte, uitlaatgasontleders, kondensators en spoeltoetsers, vonkpropskoonmakers en -toetsers en hidrouliese toetstoerusting en inspuiterstoetsers.	128
6.6	Herstening en selfstandig werk		*
15. AMBAG: VOERTUIGBAKBOUER (15)			
1.1	Inleiding tot die bedryf	Verantwoordelikhede, voorkoms en houding in werksituasie.	28
1.2	Veiligheid	Basiese veiligheidsmaatreëls van toepassing in die ambag wag gedurende vakleerlingskap beoefen moet word, met spesiale aandag aan veilige hantering en versorging van handgereedskap, giftige en vlambare gasse, vloeistowwe en gasse wat onder druk verkeer, elektriese installasies, masjienbeskerming, masjien- en lugdrukgereedskap, slypwiele, bewegende en oorhoofse masjinerie en gebruik van draagbare brandblussers. Teorie en praktyk van eerstehulp.	50
2.0	Kennis van:		
2.1	Hand- en werkswinkelgereedskap	Versorging en gebruik van gereedskap. Vervaardiging van werkstukke en/of dele deur gebruik te maak van die tegnieke afbeiting, boor, vyl, saag, skraap, buitedraadinsnyding en moerdraadinsnyding. Skerpmaak van snygereedskap. Afwerking, haaks maak, kontrolering en montering van wiele op slypmasjiene. Gebruik van vasbeg-, sluit- en seëltoestelle.	100

* Oorblywende leertyd.

Logboek-simbool	Soort werk	Praktiese opleiding	Getal ure aanbeveel vir onderrig in elke soort werk
3.1	Kennis van materiale	Kennis van materiaal wat vir vervaardiging en heelmaak van staal- en saamgestelde voertuigbakke gebruik word. Kennis en gebruik van krag- en handgedrewe masjinerie. Reaksie van verskillende soorte metaal op masjienbewerking en buigtoleransies en vryruimtes vereis vir masjienbewerking van verskillende diktes metaal.	80
4.1	Bakbouwerk	Afwerking van metaal. Klinkwerk en maak van lasse. Montering van bakke. Lees van tekeninge, spesifikasies en materiaalyste. Afmerk vir herstel en vervaardiging. Elektriese en gassweiswerk. Praktiese afmerkwerk. Vervaardiging van metaaldele met die hand en masjien. Binne-afwerking van bakke. Algemene bakbou- en herstelwerk, insluitende alle sweisprosesse en spesiale prosedures vir bewerking van metaal wat in die ambag van toepassing is soos byvoorbeeld aanmekeer heg van panele, slyp en/of vul en/of veegwerk aan sodanige lasse. Roesweringstegnieke en beskerming van motorvoertuig- en elektriese komponente.	812
5.1	Meer gevorderde werk	Sweis van metale, uitgesonderd sagsteeaal soos vlek-vry staal en aluminium. Voorbereiding van panele en vervaardiging van plaatmetaaldele vir voertuie vanaf eie patrone. Volledige platering van bakke, met gebruikmaking van alle metodes en masjinerie wat daarvoor nodig is. Die pas van glas en vensters in bakwerk deur middel van gomlastiekglasuurdele.	2 330
6.1	Hersiening en selfstandige werk		*

* Oorblywende leertyd.

SCHEDULE

Log-book symbol	Class of work	Practical training	Recommended instruction time per class of work in hours
1. TRADE: AUTOMOTIVE BODY REPAIRER (5)			
1.1	Introduction to the industry	Responsibilities, appearance and attitude in work situation.	28
1.2	Safety	Basic safety precautions applicable in the trade to be practised throughout apprenticeship, with special reference to safe handling and care of hand tools, noxious and flammable gases, liquids and gases under pressure, electrical installations, machine protection, machine and pneumatic tools, grinding wheels, moving and overhead machinery and use of portable fire extinguishers. Theory and practice of first aid.	50
2.0	Knowledge of:		
2.1	Hand and workshop tools	Care and use of tools. Techniques of drilling, filing, sawing, screwing and tapping. Sharpening of cutting tools. Use of pullers. Dressing, trueing, checking and mounting of wheels on grinding machines. Use of securing, locking and sealing devices. Handling, correct use and care of tools and equipment including dollies, hammers and beating tools, levers, spoons, spanners, punches, chisels, clamps, wiping blocks, files and shandpaper, heating blow lamps and gas torches, electric drills and riveting machines, electric grinders, stocks and dies. Use of "Portopower" jacks and their component operating parts, such as extension bars, top and bottom pushing tools, spreaders and secondary jacks and their support bars, heavy hydraulic jacks and their ancillary parts for anchoring, stretching, pulling and setting, including anchoring and uses of clamps. Gauges for aligning chassis and monoconstruction bodies.	830
3.1	Repair work	Stripping of damaged parts of bodywork and care of such parts and their fastenings with regard to their eventual replacement. Simple panel beating repairs, on and off the vehicle. Simple wiping, filing and grinding. Heating, cutting, welding and brazing of common sheet iron by acetylene gas torches and heating by blow lamp. Welding of alloys and soldering. Filling of dents with zinc alloys and/or plastics. Simple electric welding.	830
4.1	More advanced training	Elementary spray painting. Instruction and practice in stretching and shrinking of sheet metal, including explanations of the effects thereof. Advanced wiping, filing, grinding and filing with solder or plastics. Testing and repair of fuel tanks with necessary precautions to be taken regarding explosions and fires. Repairing of radiator tanks and minor repairs to cooling tubes and fins. Removing and replacing of body panels and sheet-metal parts and installing new panels and other such parts. Setting of doors and window framing and maintaining or recreating correct apertures and clearances for these. Rehang of doors with adjustments to hinges, attention to clearances, refitting and setting of door locks and slam plates. Fitting of channeling. Correction of body distortion in supported and mono-construction bodies. Matching parts such as fenders and door panels. Repairs and reforming of metal profiles, built-in moulding, door and window framing and metal beads. Advanced acetylene welding of steel and alloys, including electric welding. Planishing and finishing of panels prior to paint finish. Removal and replacement of suspension parts. Dust and waterproofing of previously assembled and repaired bodies. Repair and installation of windows, window mechanisms, window winders, door handles, door locks and door panels. Heating, reshaping and finishing of heavy gauge and bar metals such as bumpers, bumper stays and chassis members. Straightening and aligning of chassis. Final assembly and inspection for true fit, full complement of fastening components and correctness of shapes of hand-moulded parts in relation to one another. Elementary electrical lighting principles. Testing for proper connections and working components in electrical fittings and lightings. Focusing of headlamps. Elementary knowledge of steering geometry.	1 662
5.1	Revision and independent work		*

* Remaining period of apprenticeship.

Log-book symbol	Class of work	Practical training	Recommended instruction time per class of work in hours
2. TRADE: AUTOMOTIVE ELECTRICIAN (7)			
1.1	Introduction to the industry	Responsibilities, appearance and attitude in work situation.	28
1.2	Safety	Basic safety precautions applicable in the trade to be practised throughout apprenticeship, with special reference to safe handling and care of hand tools, noxious and flammable gases, liquids and gases under pressure, electrical installations, machine protection, machine and pneumatic tools, grinding wheels, moving and overhead machinery, and use of portable fire extinguishers. Theory and practice of first aid.	50
2.0	Knowledge of:		
2.1	Hand and workshop tools	Care and use of tools. Making of workpieces and/or parts using the techniques of chipping, drilling, filing, reaming, sawing, scraping, screwing and tapping. Sharpening of cutting tools. Use of small pullers and arbor presses. Dressing, trueing, checking and mounting of wheels on grinding machines. Use of securing, locking and sealing devices. Uses of and precautions in connection with electrical measuring instruments.	100
2.2	Brazing, soldering and welding	Knowledge and use of gas and electric welding soldering processes.	90
2.3	Drawings	Reading and interpretation of electrical diagrams from workshop manuals and bulletins.	60
3.1	Power unit	Knowledge of function and different forms of energy and the workings of internal combustion engines.	156
3.2	Electrical principles	Knowledge of battery, volts, amps, ohms, watts, magnetism and the workings of parallel switches. Function of distributor, coil and spark plugs. Elementary knowledge of starter motors, alternators, generators, regulators, pre-heating and other electrical cold starting devices. Knowledge of electronic ignition systems. Elementary knowledge of mechanical fuel injection systems. Knowledge of electronic fuel injection systems.	756
3.3	Ball and roller bearings	Knowledge of types of bearings used in motor industry. Making of simple calculations and identification of worn and defective bearings.	60
3.4	Batteries	Battery maintenance—servicing, charging, testing, sealing; diagnosis and internal examination of battery fast and slow chargers.	600
4.1	More advanced training	Testing, servicing, repair and adjustment of cut outs, regulators, solenoid switches, panel instruments, circuits, switches, lamps and horns, heater fans, relays, rheostats, traffic indicators, windshield wiper motors, electrical fuel pumps, electrical transmission controls and alternators and their regulators. Overhaul and testing of starter motors and drives. Servicing, testing and timing of magnetos. Overhauling, testing and polarising of generators. Rewiring of motor vehicles and reading wiring diagrams. Trouble shooting: Checking for open circuits, short circuits, earths, resistance and voltage drop. Fitting of car radios and aerials. Fitting of speed control systems.	1 500
5.1	Revision and independent work		*
3. TRADE: AUTOMOTIVE ENGINE FITTER (8)			
1.1	Introduction to the industry	Responsibilities, appearance and attitude in work situation.	28
1.2	Safety	Basic safety precautions applicable in the trade to be practised throughout apprenticeship, with special reference to safe handling and care of hand tools, noxious and flammable gases, liquids and gases under pressure, electrical installations, machine protection, machine and pneumatic tools, grinding wheels, moving and overhead machinery and use of portable fire extinguishers. Theory and practice of first aid.	50
2.0	Knowledge of:		
2.1	Hand and workshop tools	Care and use of tools. Making of workpieces and/or parts using the techniques of chipping, drilling, filing, reaming, sawing, scraping, screwing and tapping. Sharpening of cutting tools. Use of pullers and presses. Dressing, trueing, checking and mounting of wheels on grinding machines. Annealing of materials. Use of securing, locking and sealing devices and of measuring tools. Making gaskets.	100
2.2	Brazing, soldering and welding	Knowledge and use of gas, electric welding and soldering processes.	90
2.3	Drawings	Reading and interpretation of drawings from workshop manuals and bulletins.	100
3.0	Power unit	Knowledge of function and different forms of energy and the workings of petrol engines and diesel engines.	150
3.1	Systems	Knowledge of function and composition of the following systems: Fuel, exhaust, turbo-charger, cooling, lubrication, injector, injection pump, compressor, vacuum pump, exhaust brake.	150
3.2	Electrical principles	Knowledge of battery, volts, amps, ohms and watts. Magnetism and the working of parallel switches. Knowledge of function of distributor, coil and spark-plugs. Elementary knowledge of starter motors, alternators, generators, regulators, pre-heating and other cold starting systems.	100
3.3	Ball, roller and babbitt metal bearings	Knowledge of types of bearings used in the motor industry. Making of simple calculations and identification of worn and defective bearings.	100
4.0	Clutches	Knowledge of all types of clutches used in the motor industry.	100
5.0	Engine tuning	Running speed and minor tuning adjustments, e.g. carburettors, ignition, plugs, points, adjustment of idling systems and spill cut off timing.	300
5.1	Advanced practical training	Dismantling and assembling of petrol and diesel engines, including overhauling and fitting of the following parts: Piston rings, gudgeon pins, main and big end bearings, cylinder heads, valve trains, turbo-chargers and engine auxiliaries excluding injector pumps.	1 222

* Remaining period of apprenticeship.

<i>Log-book symbol</i>	<i>Class of work</i>	<i>Practical training</i>	<i>Recommended instruction time per class of work in hours</i>
5.2	Inspection and assessment of wear	Locating and identifying of faults in cylinders, on crankshafts, main and big end journals, camshaft journals, valve trains, cylinder heads, turbo-chargers and other engine auxiliaries excluding injector pumps.	380
6.0	Testing equipment and gauges	Correct use of vacuum gauge, compression tester, amp, volt, tacho and dwell angle meters, fuel pump pressure gauge, timing lights, exhaust gas analysers, condenser and coil testers, and spark-plug cleaners and testers.	180
6.1	Major servicing	Carry out major tune-ups including the overhauling of fuel pumps, carburettors and ignition systems. Dynamometer testing of engines.	350
6.2	Revision and independent work		*
4. TRADE: AUTOMOTIVE MACHINIST (9)			
1.1	Introduction to the industry	Responsibilities, appearance and attitude in work situation.	28
1.2	Safety	Basic safety precautions applicable in the trade to be practised throughout apprenticeship, with special reference to safe handling and care of hand tools, noxious and flammable gases, liquids and gases under pressure, electrical installations, machine protection, machine and pneumatic tools, grinding wheels, moving and overhead machinery and use of portable fire extinguishers. Theory and practice of first aid.	50
2.0	Knowledge of:		
2.1	Hand and workshop tools	Care and use of tools. Making of workpieces and/or parts using the techniques of chipping, drilling, filing, reaming, sawing, scraping, screwing and tapping. Sharpening of cutting tools. Use of pullers and presses. Dressing, trueing, checking and mounting of wheels on grinding machines. Use of securing, locking and sealing devices.	100
2.2	Brazing, soldering and welding	Knowledge and use of gas and electric welding, lead and silver soldering processes.	90
2.3	Drawings	Reading and interpretation of drawings from workshop manuals and bulletins.	60
3.0	Power unit	Knowledge of function and different forms of energy and workings of internal combustion engines.	220
3.1	Systems	Elementary knowledge of function and composition of fuel, exhaust, cooling and lubrication systems.	220
3.2	Measuring	Advanced knowledge of care and use of measuring instruments such as dial test indicators and micrometer types.	300
4.1	Ball, roller and babbitt metal bearings	Knowledge of all types of bearings used in the motor industry. Making of simple calculations and identification of worn and defective bearings.	400
5.1	Basic work	Simple operations on single purpose machines. Simple lathe and milling machine work.	300
6.1	More advanced work	Knowledge of functions and ability to operate. Rehonng machines, honing machines, surface grinders, crankshaft grinders, equipment for balancing engine components, crack detectors, valve seat and refacing machines. Ability to make and fit valve seat inserts, fitting valve guides, piston pin fitting. Resizing and aligning conrods. Ability to assemble engines.	1 532
7.1	Revision and independent work		*
5. TRADE: AUTOMOTIVE TRIMMER (6)			
1.1	Introduction to the industry	Responsibilities, appearance and attitude in work situation.	28
1.2	Safety	Basic safety precautions applicable in the trade to be practised throughout apprenticeship, with special reference to safe handling and care of hand tools, noxious and flammable gases, liquids and gases under pressure, electrical installations, machine protection, machine and pneumatic tools, grinding wheels and use of portable fire extinguishers. Theory and practice of first aid.	50
1.3	Knowledge of welding and other processes	Knowledge and use of elementary welding, gas and arc processes. Stripping of hoods, seats, dome linings, door and body trimming panels. Padding of seats and fitting of seat springs. Cleaning, oiling and setting of sewing machines.	575
1.4	More advanced training	Knowledge of chemical adhesion materials. Safety precautions. Marking and cutting out from work patterns, samples or drawings. Use of correct materials. Manufacture and repair of seats, squabs, door trimmings, hood and roof linings, vinyl tops and car mats. Removing and replacing window winder mechanisms and door locks. Fitting of window channelling. Dust and water-proofing of vehicles.	2 227
2.1	Revision and independent work		*
6. TRADE: DIESEL MECHANIC (2)			
1.1	Introduction to the industry	Responsibilities, appearance and attitude in work situation.	28
1.2	Safety	Basic safety precautions applicable in the trade to be practised throughout apprenticeship, with special reference to safe handling and care of hand tools, noxious and flammable gases, liquids and gases under pressure, electrical installations, machine protection, machine and pneumatic tools, grinding wheels, moving and overhead machinery and use of portable fire extinguishers. Theory and practice of first aid.	50

* Remaining period of apprenticeship.

<i>Log-book symbol</i>	<i>Class of work</i>	<i>Practical training</i>	<i>Recommended instruction time per class of work in hours</i>
2	Knowledge of:		
2.1	Hand and workshop tools	Care and use of tools. Making of workpieces and/or parts using the techniques of chipping, drilling, filing, reaming, sawing, scraping, screwing and tapping. Sharpening of cutting tools. Use of pullers and presses. Dressing, trueing, checking and mouting of wheels on grinding machine. Use of securing, locking and sealing devices.	100
2.2	Brazing, soldering and welding	Knowledge and use of gas and electric welding and soldering processes. Annealing of materials.	90
2.3	Drawings	Reading and interpretation of drawings from workshop manuals and bulletins.	60
3.0	Power unit	Knowledge of function and different forms of energy and the workings of compression ignition engines.	156
3.1	Systems	Knowledge of function and composition of: Fuel, exhaust, turbo charger, cooling and lubrication systems, vacuum pumps and air compressors, injectors and injector pumps and exhaust brake systems.	166
3.2	Electrical principles	Knowledge of batteries, volts, amps, ohms, watts, magnetism and workings of parallel switches. Elementary knowledge of starter motors, alternators, generators, regulators, preheating and other cold starting devices.	130
3.3	Ball, roller and babbit metal bearings	Knowledge of types of bearings used in the motor industry. Making of simple calculations. Identification of worn and defective bearings.	116
4.0	Clutches	Knowledge of all types of clutches used in the motor industry.	124
4.1	Gearboxes	Knowledge of simple gearbox principles. Calculating simple gear ratios. Knowledge and identification of various kinds of gear systems.	132
4.2	Drive shafts	Knowledge of purpose of drive shafts and types of joints. Use of lubricants. Removal and replacement of universal joints.	132
4.3	Final drive	Knowledge of theory of worm drive, crown wheel and pinion drive type rear axles, planetary drive systems. Calculating simple ratios. Use of dial test indicators. Knowledge and identification of differential types and types of axles. Removing and replacing rear wheel bearings.	140
4.4	Wheels and tyres	Identification of wheel types, rim and tyre sizes, causes of tyre wear and failure. Removal, adjustment and replacement of front wheel bearings. Removal and replacement of wheels, tyres and tubes. Balancing of wheels.	130
4.5	Suspension and steering systems	Knowledge of composition of lead and coil springs, torsion bars, shock absorbers and air suspension systems. Identification of all sections of front suspensions commonly used in the motor industry. Knowledge of composition and ability to identify worn steering box systems.	140
4.6	Steering geometry	Knowledge of complete steering geometry of heavy vehicles commonly used in the motor industry.	140
4.7	Brakes	Knowledge of friction laws and ability to identify composition of friction materials. Knowledge of working of simple brake booster and various air brake systems normally used in the motor industry. Ability to correctly remove, replace and adjust braking mechanisms commonly used in the motor industry.	140
5.0	Lubrication and servicing	Application of maintenance schedules, lubricants and materials. Maintenance of batteries, filters, pumps and compressors. Use and maintenance of hydraulic lifting equipment.	152
5.1	Cooling systems	Maintenance of cooling systems.	152
5.2	Engine tuning	Adjustment of idling systems and spill cut off timing.	152
5.3	Replacement and servicing of components	Removal and replacement of engine assemblies and system components such as cooling, fuel, electrical and exhaust system components; clutches, gearboxes, propeller shafts, universal joints, rear axle centre portions and assemblies, front and rear suspension components; mechanical and hydraulic brake components; front and rear wheel bearings; electrical lighting system. Diagnose and remedy by application of differentiation between wear requiring replacement or adjustment.	512
5.4	Towing and recovery of vehicles	Experience in elementary towing and recovery of vehicles.	512
5.5	Sketches and diagrams	Making sketches of mechanical parts and elementary auto electrical circuits. Reading and interpretation of drawings, signs and symbols, and elementary wiring diagrams.	90
6.1	Advanced practical training:		
6.2	Engine units—overhauling and fitting of parts	Dismantling and complete assembling of engine including overhauling and fitting of the following parts: Pistons, rings and gudgeon pins, main and big end bearings, cylinder heads, valve trains, pre-heaters and injectors.	250
6.3	Inspection and assessment of wear	Location and identification of faults in cylinders, on crankshaft, main and big end journals, camshaft journals, valve trains and cylinder heads.	250
6.4	Assessment of wear and overhauling of systems and units	Overhaul, assess for wear, reassemble and adjust where necessary of clutches, gearboxes, propeller shafts, final drive, front axle and rear axle assemblies, steering boxes and linkages, suspension units and brake systems. Location of faults by systematic trouble shooting and adjustment and/or replacement of worn or faulty components and parts. Repair and/or replacement of faulty assemblies.	250

* Remaining period of apprenticeship.

<i>Log-book symbol</i>	<i>Class of work</i>	<i>Practical training</i>	<i>Recommended instruction time per class of work in hours</i>
6.5	Reset of steering geometry	Knowledge of and ability to reset complete steering geometry of motor vehicles commonly used in the motor industry.	30
6.6	Testing equipment and gauges	Correct use of compression testers, amp, volt and ohm meters, fuel pump pressure gauges, timing lights (where facilities exist), exhaust gas analysers and injector testers.	280
6.7	Major service	Carrying out major service of fuel pumps, injectors, pre-heaters, resetting spill timing, servicing of exhaust brake systems.	280
6.8	Revision and independent work		*
7. TRADE: FITTER AND TURNER (11)			
1.1	Introduction to the industry	Responsibilities, appearance and attitude in work situation.	28
1.2	Safety	Basic safety precautions applicable in the trade to be practised throughout apprenticeship, with special reference to safe handling and care of hand tools, noxious and flammable gases, liquids and gases under pressure, electrical installations, machine protection, machine and pneumatic tools, grinding wheels, moving and overhead machinery and use of portable fire extinguishers. Theory and practice of first aid.	50
2.0	Knowledge of:		
2.1	Hand and workshop tools	Care and use of tools. Making of workpieces and/or parts using the techniques of chipping, drilling, filing, reaming, sawing, scraping, screwing and tapping. Sharpening of cutting tools. Use of pullers and presses. Dressing, trueing, checking and mounting of wheels on grinding machines. Use of securing, locking and sealing devices.	100
2.2	Brazing, soldering and welding	Knowledge and use of gas, electric welding and soldering processes. Annealing of materials.	90
2.3	Materials	Knowledge of composition, physical properties and use of metals commonly used in the motor industry.	300
3.1	Drawings	Reading and interpretation of drawings from workshop manuals, bulletins and blue prints.	100
4.1	Measuring	Advanced knowledge of care and use of measuring instruments such as dial test indicators and micrometer types.	100
5.1	Basic work	Simple lathe and milling machine work. Correct use of feeds and speeds for different materials and operations.	350
6.1	More advanced work	Fitting of components. Making of parts to drawings. General fitting practice, including assembly of parts. Repair and maintenance of machinery and equipment. Advanced centre lathe work, including screw cutting.	2 282
7.1	Revision and independent work		*
8. TRADE: FUEL INJECTION PUMP MECHANIC (1)			
1.1	Introduction to the industry	Responsibilities, appearance and attitude in work situation.	28
1.2	Safety	Basic safety precautions applicable in the trade to be practised throughout apprenticeship, with special reference to safe handling and care of hand tools, noxious and flammable gases, liquids and gases under pressure, electrical installations, machine protection, machine and pneumatic tools, grinding wheels, moving and overhead machinery and use of portable fire extinguishers. Theory and practice of first aid.	50
2.0	Knowledge of:		
2.1	Hand and workshop tools	Care and use of tools. Making of workpieces and/or parts using the techniques of chipping, drilling, filing, reaming, sawing, scraping, screwing and tapping. Sharpening of cutting tools. Use of pullers and presses. Dressing, trueing, checking and mounting of wheels on grinding machines. Use of securing, locking and sealing devices.	100
2.2	Brazing, soldering and welding	Knowledge and use of gas and electric welding and soldering processes.	90
2.3	Drawings	Reading and interpretation of drawings from workshop manuals and bulletins.	60
3.0	Power unit	Knowledge of function and different forms of energy and workings of internal combustion engines.	140
3.1	Ball, roller and babbitt metal bearings	Knowledge of types of bearings used in fuel injection systems normally used in the motor industry. Making of simple calculations. Identification of worn and defective bearings.	116
3.2	Injector nozzles	How to handle injector nozzle equipment. Dismantling, inspection and assembly of injectors. Inspection of nozzles to check that nozzles specified by engine makers are used. Inspection and checking of all component parts of injector holders. Inspection of injector needles and nozzles to decide whether they can economically be reconditioned or whether replacement is necessary. Knowledge and use of the suction fan. The selection of correctly ground angles on lapping pins to restore seat angles as originally specified. Regrinding of needles to the angles originally specified. Use of special lapping pastes. Checking of spray characteristics and needle lift. Final assembly of injector. Testing, setting to specified breaking pressure. Reconditioning of injectors. Maintenance of injector nozzle equipment. Nozzle cleaning theory.	500
3.3	Fuel pumps	Dismantling and assembling of single and multicylinder, non-camshaft fuel pumps. Dismantling and assembling of in-line fuel pumps with camshafts; mechanical or pneumatic governors; transfer (or primary) pumps. Dismantling, inspection, replacing of worn parts, reassembling, checking and calibrating of fuel pumps with hydraulic governors. Dismantling, inspection, replacing of worn parts, reassembling, checking and calibrating of rotary type fuel pumps.	978

* Remaining period of apprenticeship.

<i>Log-book symbol</i>	<i>Class of work</i>	<i>Practical training</i>	<i>Recommended instruction time per class of work in hours</i>
3.4	More advanced work	Calibration of in-line fuel pumps. Knowledge of the reading of basic calibrating charts and how to apply this to fuel pumps on testing machines. Setting of basic and maximum fuel readings. Checking and setting governors for maximum and idling speeds. Testing primary pumps for pressures and delivery. Removing and replacing of fuel pumps and injectors from vehicles. Checking and resetting of timing. Fault finding. Maintenance of calibrating equipment. Knowledge of fuel injection systems.	818
3.5	Revision and independent work		*
9. TRADE: MOTOR CYCLE AND SCOOTER MECHANIC (4)			
1.1	Introduction to the industry	Responsibilities, appearance and attitude in work situation.	28
1.2	Safety	Basic safety precautions applicable in the trade to be practised throughout apprenticeship, with special reference to safe handling and care of hand tools, noxious and flammable gases, liquids and gases under pressure, electrical installations, machine protection, machine and pneumatic tools, grinding wheels, moving and overhead machinery and use of portable fire extinguishers. Theory and practice of first aid.	50
2.0	Knowledge of:		
2.1	Hand and workshop tools	Care and use of tools. Making of workpieces and/or parts using the techniques of chipping, drilling, filing, reaming, sawing, scraping, screwing and tapping. Sharpening of cutting tools. Use of pullers and presses. Dressing, truing, checking and mounting of wheels on grinding machines. Use of securing, locking and sealing devices.	100
2.2	Brazing, soldering and welding	Knowledge and use of gas and electric welding and soldering processes. Annealing of materials.	90
2.3	Drawings	Reading and interpretation of drawings from workshop manuals and bulletins.	60
3.0	Power unit	Knowledge of function and different forms of energy. Knowledge of workings of petrol engines.	156
3.1	Stystems	Function and composition of fuel, exhaust, cooling and lubrication systems.	156
3.2	Electrical principles	Knowledge of battery, volts, amps, ohms and watts. Knowledge of magnetism. Function of distributor, magnetos, coils and spark plugs. Elementary knowledge of starter motors, alternators and regulators.	140
3.3	Ball, roller and babbitt metal bearings	Knowledge of types of bearings used in the motor industry. Making of simple calculations. Identification of worn and defective bearings.	116
4.0	Clutches	Knowledge of all types of clutches used in the motor cycle industry.	124
4.1	Gearboxes	Knowledge of simple gearbox principles. Calculating simple gear ratios. Knowledge and identification of various kinds of gear systems.	132
4.2	Drive shafts	Knowledge of purpose of drive shafts. Types of joints. Use of lubricants. Knowledge of purpose of sprockets and chains. Making of simple calculations of ratios.	132
4.3	Final drive	Knowledge of theory of crown wheel and pinion drive type rear axles. Calculating simple ratios. Use of dial test indicators. Knowledge and identification of differential types and type of axles. Removal and replacement of rear wheel bearings.	140
4.4	Wheels and tyres	Identification of wheel types, rim and tyre sizes, causes of tyre wear and failure. Removal, adjustment and replacement of front wheel bearings. Removal and replacement of wheels, tyres and tubes. Balancing of wheels.	132
4.5	Suspension and steering systems	Knowledge of composition of coil springs and shock absorber units. Identification of all sections of suspensions commonly used in the motor cycle industry.	70
4.6	Brakes	Knowledge of friction laws and ability to identify composition of friction materials. Ability to correctly remove, replace and adjust braking mechanisms commonly used in the motor industry.	70
5.1	Lubrication and servicing	Application of maintenance schedules, lubricants and materials. Maintenance of batteries and filters.	132
5.2	Cooling systems	Maintenance of cooling systems.	132
5.3	Engine tuning	Running and minor tuning adjustments, e.g. carburettors, ignition, plugs, points and timing.	132
5.4	Replacement and servicing of components	Removal and replacement of engine assemblies and system components such as cooling fuel, electrical and exhaust systems, clutches, gearboxes, propeller shafts, universal joints, sprockets and chains, rear axle assemblies, front and rear suspension components, mechanical and hydraulic brake components wheel bearings, front and rear, and electrical lighting systems. Diagnose and remedy by application of differentiation between wear requiring replacement or adjustment.	639
5.5	Sketches and diagrams	Making sketches of mechanical parts and elementary electrical circuits. Reading and interpretation of drawings, signs and symbols, and elementary wiring diagrams.	90
6.1	Advanced practical training:		
6.2	Engine units—overhauling and fitting of parts	Dismantling and complete assembling of engine, including overhauling and fitting of the following parts: Pistons, rings and gudgeon pins, main and big end bearings, cylinder heads and valve trains.	281
6.3	Inspection and assessment of wear	Location and identification of faults in cylinders, on crankshaft, main and big end journals, camshaft journals, valve trains and cylinder heads.	281

* Remaining period of apprenticeship.

<i>Log-book symbol</i>	<i>Class of work</i>	<i>Practical training</i>	<i>Recommended instruction time per class of work in hours</i>
6.4	Assessment of wear and overhauling of systems and units	Overhaul, assess for wear, reassemble and adjust, where necessary, of clutches, gear-boxes, propeller shafts, sprockets and chains, final drive, front axle and rear axle assemblies, steering boxes and switches, suspension systems and brake systems. Location of faults by systematic trouble shooting and adjustment and/or replacement of worn or faulty components and parts. Repair and/or replacement of faulty assemblies.	282
6.5	Frame and swing arm alignment	Knowledge of frame and swing arm alignment.	80
6.6	Testing equipment and gauges	Correct use of vacuum gauge, compression tester, amp, volt, tacho and dwell angle meters, timing lights, exhaust gas analysers, condenser and coil testers, spark-plug cleaners and testers.	200
6.7	Major servicing	Carry out major tune-ups of carburettors and ignition systems.	200
6.8	Revision and independent work		*
10. TRADE: MOTOR MECHANIC (10)			
1.1	Introduction to the industry	Responsibilities, appearance and attitude in work situation.	28
1.2	Safety	Basic safety precautions applicable in the trade to be practiced throughout apprenticeship, with special reference to safe handling and care of hand tools, noxious and flammable gases, liquids and gases under pressure, electrical installations, machine protection, machine and pneumatic tools, grinding wheels, moving and overhead machinery and use of portable fire extinguishers. Theory and practice of first aid.	50
2.0	Knowledge of:		
2.1	Hand and workshop tools	Care and use of tools. Making of workpieces and/or parts using the techniques of chipping, drilling, filing, reaming, sawing, scraping, screwing and tapping. Sharpening of cutting tools. Use of pullers and presses. Dressing, trueing, checking and mounting of wheels on grinding machines. Use of securing, locking and sealing devices.	100
2.2	Brazing, soldering and welding	Knowledge and use of gas and electric welding and soldering processes. Annealing of materials.	90
2.3	Drawings	Reading and interpretation of drawings from workshop manuals and bulletins.	60
3.0	Power unit	Knowledge of function and different forms of energy and the workings of petrol engines.	156
3.1	Systems	Function and composition of fuel, exhaust, cooling and lubrication systems.	156
3.2	Electrical principles	Knowledge of battery, volts, amps, ohms, watts and magnetism. Function of distributor, coil and spark plugs. Elementary knowledge of starter motors, alternators, generators and regulators.	140
3.3	Ball, roller and babbitt metal bearings	Knowledge of types of bearings used in the motor industry. Making of simple calculations. Identification of worn and defective bearings.	116
4.0	Clutches	Knowledge of all types of clutches used in the motor industry.	124
4.1	Gearboxes	Knowledge of simple gearbox principles. Calculating simple gear ratios. Knowledge and identification of various kinds of gear systems.	132
4.2	Drive shafts	Knowledge of purpose of drive shafts and types of joints. Use of lubricants. Removal and replacement of universal joints.	132
4.3	Final drive	Knowledge of theory of worm drive, crown wheel and pinion drive type rear axles. Calculating simple ratios. Use of dial test indicators. Knowledge and identification of differential types and types of axles. Removal and replacement of rear wheel bearings.	140
4.4	Wheels and tyres	Identification of wheel types, rim and tyre sizes, causes of tyre wear and failure. Removal, adjustment and replacement of front wheel bearings. Removal and replacement of wheels, tyres and tubes. Balancing of wheels.	132
4.5	Suspension and steering systems	Knowledge of composition of leaf and coil springs, torsion bars and shock absorbers. Identification of all sections of front suspensions commonly used in the motor industry. Knowledge of composition and ability to identify worn sector and rack and pinion type steering systems.	140
4.6	Steering geometry	Knowledge of complete steering geometry of motor vehicles commonly used in the motor industry.	140
4.7	Brakes	Knowledge of friction laws and ability to identify composition of friction materials. Knowledge of working of simple brake booster. Ability to correctly remove, replace and adjust braking mechanisms commonly used in the motor industry.	140
5.1	Lubrication and servicing	Application of maintenance schedules, lubricants and materials. Maintenance of batteries and filters.	132
5.2	Cooling systems	Maintenance of cooling systems.	
5.3	Engine tuning	Running and minor tuning adjustments, e.g. carburettors, ignition, plugs, points and timing. Knowledge of fuel injection and electronic ignition systems.	
5.4	Replacement and servicing of components	Removal and replacement of engine assemblies and system components such as cooling, fuel, electrical and exhaust system components; clutches, gearboxes, propeller shafts, universal joints; rear axle centre portions, rear axle assemblies, front and rear suspension components; mechanical and hydraulic brake components; wheel bearings, front and rear; and electrical lighting systems. Diagnose and remedy by application of differentiation between wear requiring replacement or adjustment.	448
5.5	Towing and recovery of vehicles	Experience in elementary towing and recovery of vehicles.	448

* Remaining period of apprenticeship.

<i>Log-book symbol</i>	<i>Class of work</i>	<i>Practical training</i>	<i>Recommended instruction time per class of work in hours</i>
5.6	Sketches and diagrams	Making sketches of mechanical parts and elementary auto electrical circuits. Reading and interpretation of drawings, signs and symbols and elementary wiring diagrams.	90
6.1	Advanced practical training		
6.2	Engine units—overhauling and fitting of parts	Dismantling and complete assembling of engine, including overhauling and fitting of parts such as pistons, rings and gudgeon pins, main and big end bearings, cylinder heads and valve trains.	447
6.3	Inspection and assessment of wear	Location and identification of faults in cylinders, on crankshaft, main and big end journals, camshaft journals, valve trains and cylinder heads.	447
6.4	Assessment of wear and overhauling of systems and units	Overhaul, assess for wear, reassemble and adjust where necessary—clutches gearboxes, propeller shafts, final drive, front axle and rear axle assemblies, steering boxes and linkages, suspension units, brake systems. Location of faults by systematic trouble shooting and adjustment and/or replacement of worn or faulty components and parts. Repair and/or replacement of faulty assemblies.	201
6.5	Steering geometry	Knowledge of and ability to reset complete steering geometry of motor vehicles commonly used in the motor industry	46
6.6	Testing equipment and gauges	Correct use of vacuum gauge, compression tester, amp, volt, tacho and dwell angle meters, fuel pump pressure gauge, timing lights, exhaust gas analysers, condenser and coil testers, spark-plug cleaners and testers.	200
6.7	Major service	Carry out major tune-ups of fuel pumps, carburettors and ignition systems.	200
6.8	Revision and independent work		*
11. TRADE: SPRAYPAINTER (12)			
1.1	Introduction to the industry	Responsibilities, appearance and attitude in work situation.	28
1.2	Safety	Basic safety precautions applicable in the trade to be practised throughout apprenticeship, with special reference to safe handling and care of hand tools, noxious and flammable gases, liquids and gases under pressure, electrical installations, machine protection, machine and pneumatic tools, grinding wheels, moving and overhead machinery and use of portable fire extinguishers. Theory and practice of first aid.	50
1.3	Knowledge of spray painting and materials in use	Removing of paints, rubbing down of surfaces and cleaning off impurities. Basic colour tinting formulas. General care of spray guns and compressors. Masking out and covering of parts not to be painted. Knowledge of basic signwriting.	575
2.1	More advanced spray painting work	Preparation of surfaces, including application of stopping primers and surfaces. Mixing of paints and colour matching. Practise in use of tintometer. Applying of paints by gun and brush. Recognition and uses of different types of enamels, laquers and acrylics and their reaction on one another. Use of different solvents and driers. Knowledge of base coat and clear coat principles. Diagnosing faulty panel-beating work.	2 227
3.1	Revision and independent work		*
12. TRADE: TOOL JIG AND DIE MAKER (3)			
1.1	Introduction to the industry	Responsibilities, appearance and attitude in work situation.	28
1.2	Safety	Basic safety precautions applicable in the trade to be practised throughout apprenticeship, with special reference to safe handling and care of hand tools, noxious and flammable gases, liquids and gases under pressure, electrical installations, machine protection, machine and pneumatic tools, grinding wheels, moving and overhead machinery and use of portable fire extinguishers. Theory and practice of first aid.	50
2.0	Knowledge of:		
2.1	Hand and workshop tools	Care and use of tools. Making of workpieces and/or parts using the techniques of chipping, drilling, filing, reaming, sawing, scraping, screwing and tapping. Sharpening and forming of cutting tools. Use of pullers and presses. Dressing, truing, checking and mounting of wheels on grinding machines. Use of securing, locking and sealing devices.	280
2.2	Brazing, soldering and welding	Knowledge and use of gas and electric welding, lead and silver soldering processes. Knowledge of physical properties of various materials used in the motor industry.	120
2.3	Drawings	Reading and interpretation of drawings.	350
2.4	Measuring	Advanced knowledge of care and use of measuring instruments commonly used in the motor industry.	220
3.1	Basic work	Knowledge of simple centre lathe work. The correct use of feeds and speeds for different materials and operations. Operating shaping and drilling machines. Preparation of dies and machine drawings, including instruction in types of presses and ancillary equipment which influence die design. Operating tool grinding machines, lathes, milling and manual or automatic copying die milling machines (including use of dividing head). Knowledge of heat treatment and the cleaning and/or polishing of dies.	900
4.1	More advanced work	Making and repair of templates, gauges, jigs and fixtures. Laying out impression plates. Making of dies for moulding and/or castings, including use of epoxy resins. Instruction in moulding techniques, including hard facing. Blacksmith training in the manufacture of high speed steel chisels and form punches and forging dies of the types used for bench work in impression sinking. Marking out of the profile impressions with top and bottom edges and incorporating the necessary draft angles. Marking out of leads to ensure that component is within tolerances in all respects with the necessary contraction allowances.	1 452

* Remaining period of apprenticeship.

<i>Log-book symbol</i>	<i>Class of work</i>	<i>Practical training</i>	<i>Recommended instruction time per class of work in hours</i>
5.1	Revision and independent work		*
13. TRADE: TRACTOR AND AGRICULTURAL MACHINERY MECHANIC (13)			
1.1	Introduction to the industry	Responsibilities, appearance and attitude in work situation.	28
1.2	Safety	Basic safety precautions applicable in the trade to be practised throughout apprenticeship, with special reference to safe handling and care of hand tools, noxious and flammable gases, liquids and gases under pressure, electrical installations, machine protection, machine and pneumatic tools, grinding wheels, moving and overhead machinery and use of portable fire extinguishers. Theory and practice of first aid.	50
2.0	Knowledge of:		
2.1	Hand and workshop tools	Care and use of tools. Making of workpieces and/or parts using the techniques of chipping, drilling, filing, reaming, sawing, scraping screwing and tapping. Sharpening of cutting tools. Use of pullers and presses. Dressing, truing, checking and mounting of wheels on grinding machines. Use of securing, locking and sealing devices.	100
2.2	Brazing, soldering and welding	Knowledge and use of gas, electric welding and soldering processes. Annealing of materials.	90
2.3	Drawings	Reading and interpretation of drawings from workshop manuals and bulletins.	60
3.0	Power unit	Knowledge of function and different forms of energy and the workings of compression ignition engines.	156
3.1	Systems	Function and composition of fuel, exhaust, turbo charger, cooling and lubrication systems, vacuum pumps and air compressors, injectors and injector pumps and exhaust brake systems.	166
3.2	Electrical principles	Knowledge of batteries, volts, amps, ohms, watts and magnetism. Knowledge of workings of parallel switches. Elementary knowledge of starter motors, alternators, generators, regulators, pre-heating and other cold starting devices.	130
3.3	Ball, roller and babbitt metal bearings	Knowledge of types of bearings used in the motor industry. Making of simple calculations. Identification of worn and defective bearings.	116
4.0	Clutches	Knowledge of all types of clutches used in the motor industry.	124
4.1	Gearboxes	Knowledge of simple gearbox principles. Calculating simple gear ratios. Knowledge and identification of various kinds of gear systems.	132
4.2	Drive shafts	Knowledge of purpose of drive shafts. Types of joints. Use of lubricants. Removal and replacement of universal joints.	132
4.3	Final drive	Knowledge of theory of crown wheel and pinion drive type rear axles, planetary drive systems and hydraulic drives. Calculating simple ratios. Use of dial test indicators. Knowledge and identification of differential systems and types of axles. Removal and replacement of rear wheel bearings.	140
4.4	Wheels and tyres	Identification of wheel types, rim and tyre sizes, causes of tyre wear and failure. Removal, adjustment and replacement of front wheel bearings. Removal and replacement of wheels, tyres and tubes.	132
4.5	Suspension and steering systems	Knowledge and identification of all sections of front suspensions commonly used in the motor industry. Knowledge of composition and ability to identify worn steering box systems. Adjusting wheel width.	140
4.6	Steering geometry	Knowledge of complete steering geometry of tractors, combines and self-propelled units commonly used in the motor industry.	140
4.7	Brakes	Knowledge of friction laws and ability to identify composition of friction materials. Knowledge of working of mechanical, hydraulic and other brake systems normally used in the motor industry. Ability to correctly remove, replace and adjust braking mechanisms commonly used in the motor industry.	140
5.0	Lubrication and servicing	Application of maintenance schedules, lubricants and materials. Maintenance of batteries, filters, pumps, compressors and hydraulic equipment.	152
5.1	Cooling systems	Diagnosis and maintenance of cooling systems.	152
5.2	Engine tuning	Adjustment of idling systems and spill cut off timing.	152
5.3	Replacement and servicing of components	Removal and replacement of engine assemblies, cooling system components, fuel system components, electrical system components, exhaust system components, clutches, gearboxes, propeller shafts, universal joints, rear axle centre portions, rear axle assemblies, front and rear steering components. Mechanical and hydraulic brake components. Front and rear wheel bearings. Knowledge of electrical lighting system. Diagnose and remedy by application of differentiation between wear requiring replacement or adjustment.	422
5.4	Towing and recovery of vehicles	Experience in elementary towing and recovery of vehicles.	422
5.5	Sketches and diagrams	Making sketches of mechanical parts and elementary electrical circuits. Reading and understanding of drawings, signs, symbols and elementary wiring diagrams.	90
6.1	Advanced practical training:		
6.2	Engine units	Dismantling and complete assembling of engine, including overhauling and fitting of parts such as pistons, rings and gudgeon pins, main and big end bearings, cylinder heads, valve trains pre-heaters and injectors.	300
6.3	Inspection and assessment of wear	Location and identification of faults in cylinders, on crankshaft, main and big end journals, camshaft journals, valve trains and cylinder heads.	300

* Remaining period of apprenticeship.

<i>Log-book symbol</i>	<i>Class of work</i>	<i>Practical training</i>	<i>Recommended instruction time per class of work in hours</i>
6.4	Assessment of wear and overhauling of systems and units	Overhaul, assessment of wear, reassemble and adjust where necessary: Clutches, gear-boxes, propeller shafts, final drive, front axle and rear axle assemblies, steering boxes and linkages, brake systems, hydraulic lifting and power units and endless track systems. Location of faults by systematic trouble shooting and adjustment and/or replacement of worn or faulty components and parts. Repair and/or replacement of faulty assemblies.	300
6.5	Testing equipment and gauges	Correct use of compression tester, amp, volt and ohm meters, fuel pump pressure gauge, timing lights and injector testers.	300
6.6	Major service	Carry out major service, fuel pumps, injectors, preheaters, resetting spill timing, service exhaust, brake systems.	300
6.7	Revision and independent work		*
14. TRADE: TRACTOR MECHANIC (14)			
1.1	Introduction to the industry	Responsibilities, appearance and attitude in work situation.	28
1.2	Safety	Basic safety precautions applicable in the trade to be practised throughout apprenticeship, with special reference to safe handling and care of hand tools, noxious and flammable gases, liquids and gases under pressure, electrical installations, machine protection, machine and pneumatic tools, grinding wheels, moving and overhead machinery and use of portable fire extinguishers. Theory and practice of first aid.	50
2.0	Knowledge of:		
2.1	Hand and workshop tools	Care and use of tools. Making of workpieces and/or parts using the techniques of chipping, drilling, filing, reaming, sawing, scraping, screwing and tapping. Sharpening of cutting tools. Use of pullers and presses. Dressing, trueing, checking and mounting of wheels on grinding machines. Use of securing, locking and sealing devices.	100
2.2	Brazing, soldering and welding	Knowledge and use of gas and electric welding and soldering processes. Annealing of materials.	90
2.3	Drawings	Reading and interpretation of drawings from workshop manuals and bulletins.	60
3.0	Power unit	Knowledge of function and different forms of energy and the working of petrol and diesel engines.	156
3.1	Systems	Function and composition of the following systems: Fuel, exhaust, turbo chargers, cooling and lubrication.	166
3.2	Electrical principles	Knowledge of batteries, volts, amps, ohms, watts and magnetism. Function of magnetos, distributor, coil and spark plugs. Elementary knowledge of starter motors, alternators, generators and regulators. Cold starting and pre-heating systems.	140
3.3	Ball, roller and babbitt metal bearings	Knowledge of types of bearings used in the motor industry. Making of simple calculations. Identification of worn and defective bearings.	116
4.0	Clutches	Knowledge of all types of clutches commonly used in the motor industry.	124
4.1	Gearboxes	Knowledge of simple gearbox principles. Calculating simple gear ratios. Knowledge and identification of various kinds of gear systems.	132
4.2	Final drive	Knowledge of theory of crown wheel and pinion drive type rear axles. Calculating simple ratios. Use of dial test indicators. Knowledge and identification of differential types and type of axles. Remove and replace rear wheel bearings.	140
4.3	Wheels, tyres and tracks	Identification of wheel types, rim and tyre sizes, causes of tyre wear and failure. Removal, adjustment and replacement of front wheel bearings. Removal and replacement of weights, wheels, tyres and tubes. Knowledge of endless track systems. Ballasting of tyres with weights and water.	140
4.4	Steering system	Identification of all sections of steering systems commonly used in the motor industry. Knowledge of composition and ability to identify worn steering systems. Resetting of steering geometry.	140
4.5	Brakes	Knowledge of friction laws and ability to identify composition of friction materials. Ability to correctly remove, replace and adjust braking mechanisms commonly used in the motor industry.	140
5.1	Lubrication and servicing	Application of maintenance schedules, lubricants and materials. Maintenance of batteries and filters.	140
5.2	Cooling systems	Diagnosis and maintenance of cooling systems.	140
5.3	Engine tuning	Running and minor tuning adjustments, e.g. carburettors, ignition, plugs, points, adjustment of idling systems and spill cut off timing.	140
5.4	Replacement and servicing of components	Removal and replacement of engine assemblies and system components such as cooling, fuel, electrical, preheating and exhaust system components; clutches, gearboxes, propeller shafts, universal joints, rear axle centre portions and assemblies; mechanical and hydraulic brake components; front and rear wheel bearings; hydraulic lifting equipment; endless track systems and electrical lighting systems. Diagnose and remedy by application of differentiation between wear requiring replacement or adjustment.	655
5.5	Towing and recovery of vehicles	Experience in towing and recovery of vehicles.	655
5.6	Sketches and diagrams	Making sketches of mechanical parts and elementary auto electrical circuits. Reading and understanding of drawings, signs, symbols and elementary wiring diagrams.	90
6.1	Advanced practical training:		
6.2	Engine units—overhauling and fitting of parts	Dismantling and complete assembling of engine, including overhauling and fitting of the following parts: Pistons, rings and gudgeon pins, main and big end bearings, cylinder heads and valve trains.	300

* Remaining period of apprenticeship.

<i>Log-book symbol</i>	<i>Class of work</i>	<i>Practical training</i>	<i>Recommended instruction time per class of work in hours</i>
6.3	Inspection and assessment of wear	Location and identification of faults in cylinders, on crankshaft, main and big end journals, camshaft journals, valve train, cylinder heads.	300
6.4	Assessment of wear and overhauling of systems and units	Overhaul, assess for wear, reassemble and adjust where necessary: Clutches, gear-boxes, drive shafts, final drives, front and rear axle assemblies, steering boxes and linkages, brake systems, hydraulic auxiliary equipment. Location of faults by systematic trouble shooting and adjustment and/or replacement of worn or faulty components and parts. Repair and/or replacement of faulty assemblies.	365
6.5	Testing equipment and gauges	Correct use of vacuum gauge, compression tester, amp, volt, ohm, tacho and dwell angle meters, fuel pump pressure gauges, timing lights, exhaust gas analysers, condenser and coil testers, sparkplug cleaners and testers and hydraulic testing equipment and injector testers.	128
6.6	Revision and independent work		*
15. TRADE: VEHICLE BODY BUILDER (15)			
1.1	Introduction to the industry	Responsibilities, appearance and attitude in work situation.	28
1.2	Safety	Basic safety precautions applicable in the trade to be practised throughout apprenticeship, with special reference to safe handling and care of hand tools, noxious and flammable gases, liquids and gases under pressure, electrical installations, machine protection, machine and pneumatic tools, grinding wheels, moving and overhead machinery and use of portable fire extinguishers. Theory and practice of first aid.	50
2.0	Knowledge of:		
2.1	Hand and workshop tools	Care and use of tools. Making of workpieces and/or parts using the techniques of chipping, drilling, filing, sawing, scraping, screwing and tapping. Sharpening of cutting tools. Dressing, trueing, checking and mounting of wheels on grinding machines. Use of securing, locking and sealing devices.	100
3.1	Knowledge of materials	Knowledge of materials used for the manufacture and repair of steel and composite motor vehicle bodies. Knowledge and use of power and hand operated machinery. Reactions of different metals to working by machines and bending allowances and clearances necessary for the machining of different gauges of metal.	80
4.1	Body building	Dressing of metal. Rivetting and making joints. Assembly of bodies. Reading drawings, specifications and material lists. Marking out for repair and manufacture. Electric and gas welding. Practical marking out. Fabrication of metal parts by hand and machine. Inside finishing of bodies. General body building and repairs, including all welding processes and special procedures for working metal applicable to the trade such as joining of panels, grinding and/or filling and/or wiping of such joints. Techniques of corrosion protection and protection of automotive and electrical components.	812
5.1	More advanced work	Welding of metals other than mild steel such as stainless steel and aluminium. Preparing panels and making sheet iron parts for vehicles from own patterns. Complete sheeting of bodies using all methods and machinery necessary. Fitting of glass and windows into body by means of rubber glazing sections.	2 330
6.1	Revision and independent work		*

* Remaining period of apprenticeship.

No. R. 1487

16 Julie 1982

WET OP ARBEIDSVARHOUDINGE, 1956

BOU- EN MONUMENTKLIPMESSSELNYWERHEID, BLOEMFONTEIN.—VERLENGING VAN OOREENKOMS

Ek, Stephanus Petrus Botha, Minister van Mannekrag, verleng hierby, kragtens artikel 48 (4) (a) (i) van die Wet op Arbeidsverhoudinge, 1956, die tydperke vasgestel in Goewermentskennisgewings R. 896 van 27 Mei 1977, R. 2227 van 28 Oktober 1977, R. 1494 van 21 Julie 1978, R. 686 van 30 Maart 1979, R. 44 van 4 Januarie 1980, R. 979 en R. 980 van 16 Mei 1980, R. 598 en R. 599 van 20 Maart 1981, R. 1365 en R. 1366 van 26 Junie 1981 en R. 2373 van 30 Oktober 1981, met 'n verdere tydperk wat op 31 Oktober 1982 eindig.

S. P. BOTHA, Minister van Mannekrag.

No. R. 1487

16 July 1982

LABOUR RELATIONS ACT, 1956

BUILDING AND MONUMENTAL MASONRY INDUSTRIES, BLOEMFONTEIN.—EXTENSION OF AGREEMENT

I, Stephanus Petrus Botha, Minister of Manpower, hereby, in terms of section 48 (4) (a) (i) of the Labour Relations Act, 1956, extend the periods fixed in Government Notices R. 896 of 27 May 1977, R. 2227 of 28 October 1977, R. 1494 of 21 July 1978, R. 686 of 30 March 1979, R. 44 of 4 January 1980, R. 979 and R. 980 of 16 May 1980, R. 598 and R. 599 of 20 March 1981, R. 1365 and R. 1366 of 26 June 1981 and R. 2373 of 30 October 1981, by a further period ending 31 October 1982.

S. P. BOTHA, Minister of Manpower.

No. R. 1488

16 Julie 1982

WET OP ARBEIDSVERHOUDINGE, 1956

BOU- EN MONUMENTKLIPMESSELNYWERHEID, BLOEMFONTEIN.—WYSIGING VAN OOREENKOMS

Ek, Stephanus Petrus Botha, Minister van Mannekrag, verklaar hierby—

(a) kragtens artikel 48 (1) (a) van die Wet op Arbeidsverhoudinge, 1956, dat die bepalings van die Ooreenkoms (hierna die Wysigingsooreenkoms genoem) wat in die Bylae hiervan verskyn en betrekking het op die Onderneming, Nywerheid, Bedryf of Beroep in die opskrif by hierdie kennisgewing vermeld, met ingang van die tweede Maandag na die datum van publikasie van hierdie kennisgewing en vir die tydperk wat op 31 Oktober 1982 eindig, bindend is vir die werkgewersorganisasies en die vakverenigings wat die Wysigingsooreenkoms aangegaan het en vir die werkgewers en werknemers wat lede van genoemde organisasies of verenigings is; en

(b) kragtens artikel 48 (1) (b) van genoemde Wet, dat die bepalings van die Wysigingsooreenkoms, uitgesonderd dié vervat in klousules 1 (1) (a), 3 en 4, met ingang van die tweede Maandag na die datum van publikasie van hierdie kennisgewing en vir die tydperk wat op 31 Oktober 1982 eindig, bindend is vir alle ander werkgewers en werknemers as dié genoem in paragraaf (a) van hierdie kennisgewing wat betrokke is by of in diens is in genoemde Onderneming, Nywerheid, Bedryf of Beroep in die gebiede in klousule 1 van die Wysigingsooreenkoms gespesifiseer.

S. P. BOTHA, Minister van Mannekrag.

BYLAE

NYWERHEIDSRAAD VIR DIE BOUNYWERHEID (BLOEMFONTEIN)

OOREENKOMS

ingevolge die Wet op Arbeidsverhoudinge, 1956, gesluit deur en aangegaan tussen die

Master Builders' and Allied Trades Association, Bloemfontein en die

Electrical Contractors' Association of South Africa

(hierna die "werkgewers" of die "werkgewersorganisasies" genoem), aan die een kant, en die

Amalgamated Union of Building Trade Workers of South Africa en die

Blanke Bouwerkersvakbond

(hierna die "werknemers" of die "vakverenigings" genoem), aan die ander kant,

wat die partye is by die Nywerheidsraad vir die Bounywerheid (Bloemfontein),

om die Ooreenkoms, gepubliseer by Goewermmentskennisgewing R. 896 van 27 Mei 1977, soos gewysig en verleng by Goewermmentskennisgewings R. 2227 van 28 Oktober 1977, R. 1494 van 21 Julie 1978, R. 686 van 30 Maart 1979, R. 44 van 4 Januarie 1980, R. 979 en R. 980 van 16 Mei 1980, R. 598 en R. 599 van 20 Maart 1981, R. 1365 en R. 1366 van 26 Junie 1981 en R. 2373 van 30 Oktober 1981, te wysig.

1. TOEPASSINGSBESTEK

(1) Hierdie Ooreenkoms moet in die Bou- en Monumentklipmesselnywerheid nagekom word—

(a) deur alle werkgewers en werknemers wat lede is van onderskeidelik die werkgewersorganisasies en die vakverenigings;

(b) in die gebied binne 'n straal van 24,14 km vanaf die Hoofposkantoor, Bloemfontein.

(2) Ondanks subklousule (1) is, hierdie Ooreenkoms—

(a) van toepassing op vakleerlinge en kwekelinge slegs vir sover dit nie strydig is met die bepalings van die Wet op Mannekragopleiding, 1981, of met voorwaardes of kennisgewings wat daarkragtens voorgeskryf of bestel is nie;

(b) nie op klerklike werknemers of op werknemers wat administratiewe pligte vervul of op 'n lid van 'n administratiewe personeel van toepassing nie.

No. R. 1488

16 July 1982

LABOUR RELATIONS ACT, 1956

BUILDING AND MONUMENTAL MASONRY INDUSTRIES, BLOEMFONTEIN.—AMENDMENT OF AGREEMENT

I, Stephanus Petrus Botha, Minister of Manpower, hereby—

(a) in terms of section 48 (1) (a) of the Labour Relations Act, 1956, declare that the provisions of the Agreement (hereinafter referred to as the Amending Agreement) which appears in the Schedule hereto and which relates to the Undertaking, Industry, Trade or Occupation referred to in the heading to this notice, shall be binding, with effect from the second Monday after the date of publication of this notice and for the period ending 31 October 1982, upon the employers' organisations and the trade unions which entered into the Amending Agreement and upon the employers and employees who are members of the said organisations or unions; and

(b) in terms of section 48 (1) (b) of the said Act, declare that the provisions of the Amending Agreement, excluding those contained in clauses 1 (1) (a), 3 and 4, shall be binding, with effect from the second Monday after the date of publication of this notice and for the period ending 31 October 1982, upon all employers and employees, other than those referred to in paragraph (a) of this notice, who are engaged or employed in the said Undertaking, Industry, Trade or Occupation in the area specified in clause 1 of the Amending Agreement.

S. P. BOTHA, Minister of Manpower.

SCHEDULE

INDUSTRIAL COUNCIL FOR THE BUILDING INDUSTRY (BLOEMFONTEIN)

AGREEMENT

in accordance with the provisions of the Labour Relations Act, 1956, made and entered into by and between the

Master Builders' and Allied Trades Association, Bloemfontein and the

Electrical Contractors' Association of South Africa

(hereinafter referred to as the "employers" or the "employers' organisations"), of the one part, and the

Amalgamated Union of Building Trade Workers of South Africa and the

White Building Workers' Union

(hereinafter referred to as the "employees" or the "trade unions"), of the other part,

being the parties to the Industrial Council for the Building Industry (Bloemfontein),

to amend the Agreement published under Government Notice R. 896 of 27 May 1977, as amended and extended by Government Notices R. 2227 of 28 October 1977, R. 1494 of 21 July 1978, R. 686 of 30 March 1979, R. 44 of 4 January 1980, R. 979 and R. 980 of 16 May 1980, R. 598 and R. 599 of 20 March 1981, R. 1365 and R. 1366 of 26 June 1981 and R. 2373 of 30 October 1981.

1. SCOPE OF APPLICATION

(1) The terms of this Agreement shall be observed in the Building and Monumental Masonry Industries—

(a) by all employers and employees who are members of the employers' organisations and trade unions, respectively;

(b) in the area within a radius of 24,14 km from the General Post Office, Bloemfontein.

(2) Notwithstanding the provisions of subclause (1), the terms of this Agreement shall—

(a) apply to apprentices and trainees only in so far as they are not inconsistent with the provisions of the Manpower Training Act, 1981, or any conditions prescribed or any notice served in terms thereof;

(b) not apply to clerical employees or to employees engaged in administrative duties or to any member of an administrative staff.

2. KLOUSULE 34.—MINIMUM LOONSKALE

Vervang subklousule (1) deur die volgende:

“(1) Geen werkgewer mag laer lone betaal en geen werknemer mag laer lone aanneem as die volgende nie, gelees saam met die res van hierdie klousule en klousules 35 tot en met 39:

	Per uur
	c
(a) (i) Algemene voorman	342
(ii) Onderbaas	342
(iii) Ambagsman	342
(b) Ambagsman se assistent, graad I—	
(i) na die eerste ses maande diens:	
50 persent van die loon in paragraaf (a) (iii) voorgeskryf;	
(ii) gedurende die eerste ses maande diens:	
75 persent van die loon in subparagraaf (i) hiervan voorgeskryf;	
(c) Installeerder van elektriese leipype—	
(i) na voltooiing van 12 maande as 'n installeerder van elektriese leipype in die Nywerheid na registrasie ingevolge artikel 11 (2) (b) van die Wet op Elektrotegniese Draadwerkers en Aannemers, 1939;	
55 persent van die loon in paragraaf (a) (iii) voorgeskryf;	
(ii) gedurende die 12 maande as 'n installeerder van elektriese leipype in die Nywerheid na registrasie ingevolge artikel 11 (2) (b) van die Wet op Elektrotegniese Draadwerkers en Aannemers, 1939:	
75 persent van die loon in subparagraaf (i) hiervan voorgeskryf;	
(iii) Leerlinginstalleerder van elektriese leipype gedurende opleiding:	
75 persent van die loon in subparagraaf (ii) hiervan voorgeskryf;	
(d) Leerlingasfalteerder, -plafonbevestiger, -vloerleër, -beglaser en -dakbevestiger—	
(i) van een tot ses maande leerlingenskap	140
(ii) van sewe tot 12 maande leerlingenskap	160
(iii) van 13 tot 18 maande leerlingenskap	204
(iv) daarna, die loon in paragraaf (a) (iii) voorgeskryf;	
(e) Minderjarige, gedurende die proeftydperk ingevolge die Wet op Mannekragopleiding, 1981, toegelaat:	
Die loon vir 'n eerstejaarsvakleerling voorgeskryf;	
(f) Ambagsman se assistent, graad II, gekwalifiseer	148
(g) Ambagsman se assistent, graad II, ongekwalifiseer—	
(i) gedurende die eerste jaar ondervinding	92
(ii) gedurende die tweede jaar ondervinding	104
(iii) gedurende die derde jaar ondervinding	120
(h) Bediener van 'n kragkraan	142
(i) Drywer van 'n meganiese voertuig waarvan die onbelaste massa saam met die onbelaste massa van 'n sleepwa of sleepwaens wat aan so 'n voertuig vas is of deur so 'n voertuig getrek word, soos volg is:	
(i) Tot en met 900 kg	84
(ii) Meer as 900 kg tot 2 700 kg	88
(iii) Meer as 2 700 kg tot 3 465 kg	102
(iv) Meer as 3 465 kg	142
(j) Arbeider	81

Per dag

R

(k) Wag..... 6,63”.

3. KLOUSULE 44.—AANVULLENDE BESOLDIGING EN BYDRAES

In subklousule (1)bis, vervang “90c” deur “R1”.

4. KLOUSULE 66.—SPESIALE LIDMAATSKAPHEFFING: WERKGEWERS

In subklousule (1), vervang “90c” deur “R1”.

5. KLOUSULE 68.—ONTWIKKELINGS- EN OPLEIDINGSFONDS VIR DIE ELEKTROTEGNISE AANNEMINGSNYWERHEID

In subklousule (1), vervang “37c” deur “R1”.

Namens die partye op hede die 10de dag van Mei 1982 te Bloemfontein onderteken.

B. S. TERBLANCHE, Voorsitter van die Raad.

M. J. P. GREYLING, Ondervoorsitter van die Raad.

H. KENNEDY ARCHER, Sekretaris van die Raad.

2. CLAUSE 34.—MINIMUM WAGE RATES

Substitute the following for subclause (1):

“(1) No employer shall pay and no employee shall accept wages at rates lower than the following read with the remaining provisions of this clause and clauses 35 to 39 inclusive:

	Per hour
	c
(a) (i) General foreman	342
(ii) Chargehand	342
(iii) Artisan	342
(b) Artisan's assistant, Grade I—	
(i) after the first six months of employment:	
50 per cent of the wage prescribed in paragraph (a) (iii);	
(ii) during the first six months of employment:	
75 per cent of the wage prescribed in subparagraph (i) hereof;	
(c) Electrical conduit installer—	
(i) after completion of 12 months as an electrical conduit installer in the Industry after registration in terms of section 11 (2) (b) of the Electrical Wiremen and Contractors Act, 1939:	
55 per cent of the wage prescribed in paragraph (a) (iii);	
(ii) during the 12 months as an electrical conduit installer in the Industry after registration in terms of section 11 (2) (b) of the Electrical Wiremen and Contractors Act, 1939:	
75 per cent of the wage prescribed in subparagraph (i) hereof;	
(iii) Learner electrical conduit installer during training:	
75 per cent of the wage prescribed in subparagraph (ii) hereof;	
(d) Learner asphalter, ceiling fixer, floorlayer, glazier and roofing fixer—	
(i) from one to six months of learnership	140
(ii) from seven to 12 months of learnership	160
(iii) from 13 to 18 months of learnership	204
(iv) thereafter, the wage prescribed in paragraph (a) (iii);	
(e) Minor, during the probationary period allowed under the Manpower Training Act, 1981:	
The wage prescribed for first year apprentice;	
(f) Artisan's assistant, Grade II, qualified	148
(g) Artisan's assistant, Grade II, unqualified—	
(i) during the first year of experience	92
(ii) during the second year of experience	104
(iii) during the third year of experience	120
(h) Operator of a power crane	142
(i) Driver of a mechanical vehicle, the unladen mass of which together with the unladen mass of any trailer or trailers attached to or drawn by such vehicle is—	
(i) up to and including 900 kg	84
(ii) over 900 kg to 2 700 kg	88
(iii) over 2 700 kg to 3 465 kg	102
(iv) over 3 465 kg	142
(j) Labourer	81

Per day

R

(k) Watchman..... 6,63”.

3. CLAUSE 44.—SUPPLEMENTARY REMUNERATION AND CONTRIBUTIONS

In subclause (1)bis, substitute “R1” for “90c”.

4. CLAUSE 66.—SPECIAL MEMBERSHIP LEVY: EMPLOYERS

In subclause (1), substitute “R1” for “90c”.

5. CLAUSE 68.—DEVELOPMENT AND TRAINING FUND FOR THE ELECTRICAL CONTRACTING INDUSTRY

In subclause (1), substitute “R1” for “37c”.

Signed at Bloemfontein on behalf of the parties this 10th day of May 1982.

B. S. TERBLANCHE, Chairman of the Council.

M. J. P. GREYLING, Vice-Chairman of the Council.

H. KENNEDY ARCHER, Secretary of the Council.

No. R. 1489

16 Julie 1982

WET OP ARBEIDSVERHOUDINGE, 1956

BAK- EN/OF BANKETNYWERHEID (DURBAN EN DISTRIKTE).—HERNUWING VAN HOOFOOREENKOMS

Ek, Stephanus Petrus Botha, Minister van Mannekrag, verklaar hierby, kragtens artikel 48 (4) (a) (ii) van die Wet op Arbeidsverhoudinge, 1956, dat die bepalings van Goewermentskennisgewings R. 755 van 7 Mei 1976, R. 277 van 25 Februarie 1977, R. 367 van 3 Maart 1978, R. 1649 van 18 Augustus 1978, R. 1517 van 13 Julie 1979, R. 2047 van 14 September 1979, R. 234 van 8 Februarie 1980, R. 1619 van 8 Augustus 1980, R. 506 van 6 Maart 1981 en R. 1954 van 11 September 1981, van krag is vanaf die datum van publikasie van hierdie kennisgewing en vir die tydperk wat op 31 Oktober 1982 eindig.

S. P. BOTHA, Minister van Mannekrag.

No. R. 1490

16 Julie 1982

WET OP ARBEIDSVERHOUDINGE, 1956

BAK- EN/OF BANKETNYWERHEID (DURBAN EN DISTRIKTE).—WYSIGING VAN HOOFOOREENKOMS

Ek, Stephanus Petrus Botha, Minister van Mannekrag, verklaar hierby—

(a) kragtens artikel 48 (1) (a) van die Wet op Arbeidsverhoudinge, 1956, dat die bepalings van die Ooreenkoms (hierna die Wysigingsooreenkoms genoem) wat in die Bylae hiervan verskyn en betrekking het op die Onderneming, Nywerheid, Bedryf of Beroep in die opskrif by hierdie kennisgewing vermeld, met ingang van die tweede Maandag na die datum van publikasie van hierdie kennisgewing en vir die tydperk wat op 31 Oktober 1982 eindig, bindend is vir die werkgewersorganisasie en die vakvereniging wat die Wysigingsooreenkoms aangegaan het en vir die werkgewers en werknemers wat lede van genoemde organisasie of vereniging is; en

(b) kragtens artikel 48 (1) (b) van genoemde Wet, dat die bepalings van die Wysigingsooreenkoms, uitgesonderd dié vervat in klousule 1 (1), met ingang van die tweede Maandag na die datum van publikasie van hierdie kennisgewing en vir die tydperk wat op 31 Oktober 1982 eindig, bindend is vir alle ander werkgewers en werknemers as dié genoem in paragraaf (a) van hierdie kennisgewing wat betrokke is by of in diens is in genoemde Onderneming, Nywerheid, Bedryf of Beroep in die gebiede in klousule 1 van die Wysigingsooreenkoms gespesifiseer.

S. P. BOTHA, Minister van Mannekrag.

BYLAE

NYWERHEIDSRAAD VIR DIE BAK- EN/OF BANKETNYWERHEID (DURBAN EN DISTRIKTE)

OOREENKOMS

ingevolge die Wet op Arbeidsverhoudinge, 1956, gesluit deur en aangegaan tussen die

Durban and District Master Bakers' Association

(hierna die "werkgewers" of die "werkgewersorganisasie" genoem), aan die een kant, en die

Natal Baking Industry Employees' Union

(hierna die "werknemers" of die "vakvereniging" genoem), aan die ander kant,

wat die partye is by die Nywerheidsraad vir die Bak- en/of Banketnywerheid (Durban en Distrikte),

No. R. 1489

16 July 1982

LABOUR RELATIONS ACT, 1956

BAKING AND/OR CONFECTIONERY INDUSTRY (DURBAN AND DISTRICTS).—RENEWAL OF MAIN AGREEMENT

I, Stephanus Petrus Botha, Minister of Manpower, hereby, in terms of section 48 (4) (a) (ii) of the Labour Relations Act, 1956, declare the provisions of Government Notices R. 755 of 7 May 1976, R. 277 of 25 February 1977, R. 367 of 3 March 1978, R. 1649 of 18 August 1978, R. 1517 of 13 July 1979, R. 2047 of 14 September 1979, R. 234 of 8 February 1980, R. 1619 of 8 August 1980, R. 506 of 6 March 1981 and R. 1954 of 11 September 1981, to be effective from the date of publication of this notice and for the period ending 31 October 1982.

S. P. BOTHA, Minister of Manpower.

No. R. 1490

16 July 1982

LABOUR RELATIONS ACT, 1956

BAKING AND/OR CONFECTIONERY INDUSTRY (DURBAN AND DISTRICTS).—AMENDMENT OF MAIN AGREEMENT

I, Stephanus Petrus Botha, Minister of Manpower, hereby—

(a) in terms of section 48 (1) (a) of the Labour Relations Act, 1956, declare that the provisions of the Agreement (hereinafter referred to as the Amending Agreement) which appears in the Schedule hereto and which relates to the Undertaking, Industry, Trade or Occupation referred to in the heading to this notice, shall be binding, with effect from the second Monday after the date of publication of this notice and for the period ending 31 October 1982, upon the employers' organisation and the trade union which entered into the Amending Agreement and upon the employers and employees who are members of the said organisation or union; and

(b) in terms of section 48 (1) (b) of the said Act, declare that the provisions of the Amending Agreement, excluding those contained in clause 1 (1), shall be binding, with effect from the second Monday after the date of publication of this notice and for the period ending 31 October 1982, upon all employers and employees, other than those referred to in paragraph (a) of this notice, who are engaged or employed in the said Undertaking, Industry, Trade or Occupation in the areas specified in clause 1 of the Amending Agreement.

S. P. BOTHA, Minister of Manpower.

SCHEDULE

INDUSTRIAL COUNCIL FOR THE BAKING AND/OR CONFECTIONERY INDUSTRY (DURBAN AND DISTRICTS)

AGREEMENT

in accordance with the provisions of the Labour Relations Act, 1956, made and entered into by and between the

Durban and District Master Bakers' Association

(hereinafter referred to as the "employers" or the "employers' organisation"), of the one part, and the

Natal Baking Industry Employees' Union

(hereinafter referred to as the "employees" or the "trade union"), of the other part,

being the parties to the Industrial Council for the Baking and/or Confectionery Industry (Durban and Districts),

om die Ooreenkoms, gepubliseer by Goewermentskennisgewing R. 755 van 7 Mei 1976, soos gewysig en hernieu by Goewermentskennisgewings R. 277 van 25 Februarie 1977, R. 367 van 3 Maart 1978, R. 1649 van 18 Augustus 1978, R. 183 van 2 Februarie 1979, R. 1088 van 25 Mei 1979, R. 1517 van 13 Julie 1979, R. 2047 van 14 September 1979, R. 234 van 8 Februarie 1980, R. 1619 van 8 Augustus 1980, R. 506 van 6 Maart 1981 en R. 1954 van 11 September 1981 te wysig.

1. TOEPASSINGSBESTEK

Hierdie Ooreenkoms moet in die Bak- en/of Banketnywerheid nagekom word—

(1) deur alle werkgewers wat lede van die werkgewersorganisasie is en deur alle werknemers wat lede van die vakvereniging is;

(2) in die landdrosdistrikte Durban (uitgesonderd daardie gedeelte wat voor die publikasie van Goewermentskennisgewing R. 1401 van 16 Augustus 1968 binne die landdrosdistrik Umlazi geval het), Inanda, Pinetown en Lower Tugela.

2. KLOUSULE 4.—LONE

(1) In subklousule (1), vervang paragraaf (a) deur die volgende:

“(a) Geen werkgewer mag aan ’n werknemer, uitgesonderd ’n los werknemer, wat enigeen van ondervermelde klasse werk verrig, laer lone as die hieronder uiteengesit in ’n bepaalde week betaal nie en geen werknemer mag sodanige laer lone aanneem nie:

Klas werknemer	Per week R
Voorman	119,20
Vakman	98,60
Werktuigkundige of ambagsman	98,60
Versierder—	
gedurende eerste jaar ondervinding	63,10
gedurende tweede jaar ondervinding	72,90
daarna	81,25
Toesighouer	98,60
Assistent-toesighouer	91,80
Fabrieksklerk—	
gedurende eerste jaar ondervinding	55,20
daarna	63,10
Klerk, pakhuisman, toonbankassistent—	
gekwalfiseer	89,45
ongekwalfiseer—	
gedurende eerste jaar ondervinding	55,20
gedurende tweede jaar ondervinding	62,30
gedurende derde jaar ondervinding	67,60
gedurende vierde jaar ondervinding	73,70
gedurende vyfde jaar ondervinding	79,75
Versendingsklerk—	
gedurende eerste jaar ondervinding	71,45
daarna	83,55
Assistent-versendingsklerk—	
gedurende eerste jaar ondervinding	53,70
daarna	60,80
Werknemer graad I	56,50
Werknemer graad II	53,70
Werknemer graad III—	
by indiensneming	50,00
na een jaar diens	52,00
Faktotum	65,35
Drywer van ’n motorfiets, motordriewiel, bromponie of dergelike voertuig	53,15
Drywer van ’n ander motorvoertuig, met inbegrip van ’n vrachtwagen of hyser	62,30
Bestelwerverkoopman wat brood en/of banket met ’n motorfiets, motordriewiel, bromponie of dergelike voertuig aflew—	
gedurende eerste jaar ondervinding	62,30
daarna	72,20
Bestelwerverkoopman wat ’n ander soort voertuig gebruik—	
gedurende eerste jaar ondervinding	76,90
daarna	92,70
Bestelwerverkoopman se assistent—	
by indiensneming	50,00
na een jaar diens	52,00
Besteller:	
Aflewering te voet, per fiets, driewiel of handvoertuig—	
by indiensneming	50,00
na een jaar ondervinding	52,00
Ketelbediener (ketel wat tot 1 000 kg stoom per uur kan lewer)	52,00
Ketelbediener (ketel wat 1 000 kg of meer stoom per uur kan lewer)	54,45
Wag	52,00
Werknemers nie elders vermeld nie	53,70.”

to amend the Agreement published under Government Notice R. 755 of 7 May 1976, as amended and renewed by Government Notices R. 277 of 25 February 1977, R. 367 of 3 March 1978, R. 1649 of 18 August 1978, R. 183 of 2 February 1979, R. 1088 of 25 May 1979, R. 1517 of 13 July 1979, R. 2047 of 14 September 1979, R. 234 of 8 February 1980, R. 1619 of 8 August 1980, R. 506 of 6 March 1981 and R. 1954 of 11 September 1981.

1. SCOPE OF APPLICATION

The terms of this Agreement shall be observed in the Baking and/or Confectionery Industry—

(1) by all employers who are members of the employers' organisation and all employees who are members of the trade union;

(2) in the Magisterial Districts of Durban (excluding that portion which, prior to the publication of Government Notice R. 1401 of 16 August 1968, fell within the Magisterial District of Umlazi), Inanda, Pinetown and Lower Tugela.

2. CLAUSE 4.—WAGES

(1) In subclause (1), substitute the following for paragraph (a):

“(a) No employer shall pay in any week to any employee, other than a casual employee, engaged on any one of the undermentioned classes of work, wages lower, and no employee shall accept wages lower, than those set out hereunder:

Class of employee	Per week R
Foreman	119,20
Journeyman	98,60
Mechanic or artisan	98,60
Decorator/icer—	
during first year of experience	63,10
during second year of experience	72,90
thereafter	81,25
Overseer	98,60
Assistant overseer	91,80
Factory clerk—	
during first year of experience	55,20
thereafter	63,10
Clerical employee, storeman, counterhand—	
qualified	89,45
unqualified—	
during first year of experience	55,20
during second year of experience	62,30
during third year of experience	67,60
during fourth year of experience	73,70
during fifth year of experience	79,75
Despatch clerk—	
during first year of experience	71,45
thereafter	83,55
Assistant despatch clerk—	
during first year of experience	53,70
thereafter	60,80
Grade I employee	56,50
Grade II employee	53,70
Grade III employee—	
on engagement	50,00
after one year's service	52,00
Handyman	65,35
Driver of a motor cycle, motor tricycle, motor scooter or similar vehicle	53,15
Driver of any other motor vehicle, including a forklift truck or hoister	62,30
Van salesman delivering bread and/or confectionery by means of a motor cycle, motor tricycle, motor scooter or similar vehicle—	
during first year of experience	62,30
thereafter	72,20
Van salesman using any other kind of vehicle—	
during first year of experience	76,90
thereafter	92,70
Van salesman's assistant—	
on engagement	50,00
after one year's service	52,00
Delivery employee:	
Delivery on foot, by bicycle, tricycle or handpropelled vehicle—	
on engagement	50,00
after one year's experience	52,00
Boiler attendant (boiler capable of producing up to 1 000 kg steam per hour)	52,00
Boiler attendant (boiler capable of producing 1 000 kg or more steam per hour)	54,45
Watchman	52,00
Employees not elsewhere specified	53,70.”

3. KLOUSULE 7.—GEWONE WERKURE EN OORTYD

Skrap die eerste en tweede voorbehoudsbepaling in subklausule (8).

4. KLOUSULE 13.—SIEKTEVERLOF

Vervang klausule 13 deur die volgende:

"13. SIEKTEVERLOF

(1) 'n Werkgewer moet aan sy werknemer wat, na drie maande diens by hom, van sy werk afwesig is weens siekte of 'n ongeluk wat nie deur sy eie wangedrag veroorsaak is nie, uitgesonderd 'n ongeluk waarvoor skadeloosstelling kragtens die Ongevallewet, 1941, betaalbaar is—

(a) in die geval van 'n werknemer wat ses dae per week werk, altesaam 36 werkdade;

(b) in die geval van 'n werknemer wat vyf dae per week werk, altesaam 30 werkdade;

siekteverlof toestaan gedurende 'n dienstyd van drie jaar by hom en moet hom vir elke dag daarvan—

(i) in die geval van 'n werknemer wat ses dae per week werk, minstens een sesde;

(ii) in die geval van 'n werknemer wat vyf dae per week werk, minstens een vyfde;

betaal van die weekloon wat hy onmiddellik voor die aanvang van sodanige verlof ontvang het: Met dien verstande dat die werkgewer kan vereis dat 'n sertifikaat wat deur 'n geregistreerde mediese praktisyn onderteken is, of andersins 'n behoorlik ondertekende hospitaalsertifikaat wat die aard en duur van die werknemer se siekte aantoon, ingedien word vir elke afwesigheidstydperk van langer as twee dae waarvoor betaling geëis word: Voorts met dien verstande dat hierdie klausule nie van toepassing is nie waar daar ingevolge 'n ooreenkoms tussen die werkgewer en sy werknemers of tussen 'n werkgewer en 'n behoorlik geregistreerde vakvereniging in 'n fabriek 'n siektebystands- of voorsorgfonds bestaan of ingestel word waartoe die werkgewer ten opsigte van elkeen van sy werknemers minstens die bedrag bydra wat deur elke sodanige werknemer betaal word of betaalbaar is en waaruit 'n werknemer in geval van afwesigheid of afwesighede van werk weens siekte of 'n ongeluk (uitgesonderd 'n ongeluk waarvoor daar ingevolge die Ongevallewet, 1941, skadeloosstelling betaalbaar is) geregtig is om elke drie jaar 'n totale bedrag wat minstens gelyk is aan sy volle loon vir ses weke, ten opsigte van sodanige afwesigheid te ontvang onder omstandighede wat vir die werknemer wesenlik nie minder gunstig as hierdie bepaling is nie."

Vir en namens die partye op hede die 14de dag van April 1982 te Durban onderteken.

F. W. H. STAFFORD, Voorsitter van die Raad.

M. WALTERS, Ondervoorsitter van die Raad.

M. A. SMITH, Sekretaris van die Raad.

3. CLAUSE 7.—ORDINARY HOURS OF WORK AND OVERTIME

In subclause (8), delete the first and second proviso.

4. CLAUSE 13.—SICK LEAVE

Substitute the following for clause 13:

"13. SICK LEAVE

An employer shall grant to his employee, after three months' employment with him and who is absent from work through sickness or accident not caused by his own misconduct, other than an accident compensable under the Workmen's Compensation Act, 1941—

(a) in the case of an employee who works a six-day week, 36 work-days;

(b) in the case of an employee who works a five-day week, 30 work-days;

sick leave in the aggregate during any three years of employment with him and shall pay him in respect of each day thereof an amount of not less than—

(i) in the case of an employee who works a six-day week, one-sixth;

(ii) in the case of an employee who works a five-day week, one-fifth;

of the weekly wage which he was receiving immediately before the commencement of such leave: Provided that the employer may require the production of a certificate signed by a registered medical practitioner, or alternatively a duly signed hospital certificate showing the nature and the duration of the employee's illness in respect of each period of absence in excess of two days for which payment is claimed: Provided further, that where, in any factory, there exists or may be established by virtue of an agreement between the employer and his employees or between an employer and a duly registered trade union, a sick benefit or provident fund to which the employer contributes in respect of each of his employees an amount of not less than the amount paid or payable by each such employee and out of which fund an employee is, in case of absence or absences from work on account of sickness or accident (other than an accident compensable under the Workmen's Compensation Act, 1941), entitled to receive in the aggregate in any three years not less than an amount equivalent to his full wages for six weeks in respect of such absence, in circumstances substantially not less favourable to the employee than this provision, the terms of this clause shall not apply."

Signed at Durban for and on behalf of the parties this 14th day of April 1982.

F. W. H. STAFFORD, Chairman of the Council.

M. WALTERS, Vice-Chairman of the Council.

M. A. SMITH, Secretary of the Council.

DEPARTEMENT VAN NYWERHEIDSWESE, HANDEL EN TOERISME

No. R. 1468

16 Julie 1982

WET OP STANDAARDE, 1982

REGULASIES OM VOORSIENING TE MAAK VIR DIE INVORDERING VAN HEFFING OM DIE KOSTE VERBONDE AAN DIE TOEPASSING VAN VERPLIGTE SPESIFIKASIES TE DEK.—WYSIGING

Kragtens die bevoegdheid hom verleen by artikel 36 van die Wet op Standaarde, 1982 (Wet 30 van 1982), het dit die Adjunk-minister van Finansies en van Nywerheidswese, Handel en Toerisme behaag om Bylae 1 van die regulasies gepubliseer by Goewermentskennisgewing R. 139 van 24 Januarie 1975, te wysig deur invoeging van die volgende voor 'VOEDSELPRODUKTE':

Kommoditeit	Heffingseenheid	Tarief per eenheid, R
Persoonlike dryfhulpmiddels		
Swemhulpmiddels:		
Armbande	10 000 items	25,00
Ringe	10 000 items	25,00
Ander	500 items	50,00
Reddingsuie:		
Reddingsbaadjies	50 items	15,00
Ander	500 items	50,00

DEPARTMENT OF INDUSTRIES, COMMERCE AND TOURISM

No. R. 1468

16 July 1982

STANDARDS ACT, 1982

REGULATIONS TO PROVIDE FOR THE COLLECTION OF LEVY, TO COVER THE COSTS INVOLVED IN THE ENFORCEMENT OF COMPULSORY SPECIFICATIONS.—AMENDMENT

Under the powers vested in him by section 36 of the Standards Act, 1982 (Act 30 of 1982), the Deputy Minister of Finance and of Industries, Commerce and Tourism has been pleased to amend Schedule 1 of the regulations published by Government Notice R. 139 of 24 January 1975, by the insertion after 'FOODSTUFFS' of the following:

Commodity	Levy unit	Rate per unit, R
Personal flotation aids		
Swimming aids:		
Armbands	10 000 items	25,00
Rings	10 000 items	25,00
Other	500 items	50,00
Life preservers:		
Life-jackets	50 items	15,00
Other	500 items	50,00

Die Bylae word verder gewysig deur verandering van die opskrif 'MOTORTOEBEHORE' na 'MOTORVOERTUIE EN -TOEBEHORE' en invoeging ná 'Hidrouliese remvloeistof' van die volgende nuwe item:

Kommoditeit	Heffings- eenheid	Tarief per eenheid, R
Kategorie M ₁ -motorvoertuie	item	1,80

No. R. 1495

16 Julie 1982

WET OP STANDAARDE, 1982

REGULASIES OM VOORSIENING TE MAAK VIR DIE INVORDERING VAN HEFFING OM DIE KOSTE VERBONDE AAN DIE TOEPASSING VAN VERPLIGTE SPESIFIKASIES TE DEK.—WYSIGING

Kragtens die bevoegdheid hom verleen by artikel 36 van die Wet op Standaarde, 1982 (Wet 30 van 1982), het dit die Adjunk-minister van Finansies en van Nywerheidswese, Handel en Toerisme, behaag om Bylae 1 van die regulasies gepubliseer by Goewermentskennisgewing R. 139 van 24 Januarie 1975 te vervang deur die volgende nuwe Bylae 1, waarin—

(a) die geldende heffingstariewe soos op 1 Julie 1982 gekonsolideer word; en

(b) die vrystelling wat op CIP-lidlande betrekking het (by Goewermentskennisgewing R. 2165 van 12 November 1976 bekendgemaak) gewysig word deur vervanging van die uitdrukking "afkomstig uit" deur "vervaardig in".

BYLAE 1

Die betaalbare bedrag word bereken per heffingseenheid of deel daarvan tot die volgende volle eenheid.

Kommoditeit	Heffingseenheid	Tarief per eenheid, R
ELEKTRIESE UITRUSTING		
Buigbare koorde vir krag- en verligtingsdoeleindes	100 m	0,06
Kontakproppe	100 items	0,12
Kontaksokke	100 items	0,36
Lamphouers en aansluitproppe vir bajonetlamphouers	100 items	0,50
Skakelaars:		
(a) Toestelskakelaars:		
Met 'n aanslag van 16 A of minder	100 items	0,24
Met 'n aanslag bo 16 A	100 items	0,90
(b) Alle ander skakelaars, hetsy met sokke verbind of nie:		
Met 'n aanslag van 16 A of minder	100 items	0,24
Met 'n aanslag bo 16 A	100 items	0,90
Televisieontvangers:		
Kleur	item	8,00
Monochroom	item	3,00
Toestelle (alle soorte)	item	0,052 5
Verbinders vir draagbare huishoudelike toestelle	100 items	0,50
Verdeelproppe	100 items	0,20
Verplaasbare televisie-antennes	item	0,05
MOTORVOERTUIE EN -TOEBEHORE		
Beskermende helms vir motorfietsryers	item	0,20
Hidrouliese remvloeistof	100 liter	1,00
‡Kategorie M ₁ -motorvoertuie	item	1,80
PERSOONLIKE DRYFHULPMIDDELS		
†Swemhulpmiddels:		
Armbande	10 000 items	25,00
Ringe	10 000 items	25,00
Ander	500 items	50,00
†Reddingstuie:		
Reddingsbaadjies	50 items	15,00
Ander	500 items	50,00
VOEDSELPRODUKTE		
Bevrose kreef:		
Bevrose kreefsterte	10 kg	0,70
Bevrose heelkreef, gekook of ongekook	30 kg	0,70

The Schedule is further amended by alteration of the heading 'MOTOR REQUISITES' to 'MOTOR VEHICLES AND REQUISITES' and the insertion before 'Hydraulic brake fluid' of the following new item:

Commodity	Levy unit	Rate per unit, R
Category M ₁ Motor Vehicles	item	1,80

No. R. 1495

16 July 1982

STANDARDS ACT, 1982

REGULATIONS TO PROVIDE FOR THE COLLECTION OF LEVY TO COVER THE COSTS INVOLVED IN THE ENFORCEMENT OF COMPULSORY SPECIFICATIONS.—AMENDMENT

Under the powers vested in him by section 36 of the Standards Act, 1982 (Act 30 of 1982), the Deputy Minister of Finance and of Industries, Commerce and Tourism, has been pleased to replace Schedule 1 of the regulations published by Government Notice R. 139 of 24 January 1975 by the following new Schedule 1, in which—

(a) the levy rates applicable as at 1 July 1982 are consolidated; and

(b) the exemption relating to CIP member countries (made known by Government Notice R. 2165 of 12 November 1976) is amended by substitution of the expression "manufactured in" for "emanating from".

Kommoditeit	Heffingseenheid	Tarief per eenheid, R
Bevrore seeskulpdie en produkte van bevrore seeskulpdie	1 000 kg	12,50
Bevrore vis, bevrore visprodukte en bevrore koppotiges:		
Finaal verwerk.....	1 000 kg	2,75 van 1e tot 500e eenheid 2,25 van 501e tot 2 500e eenheid 2,00 van 2 501e tot 7 500e eenheid 1,10 vir elke daaropvolgende eenheid
Vir verdere verwerking.....	1 000 kg	1,65 van 1e tot 500e eenheid 1,35 van 501e tot 2 500e eenheid 1,20 van 2 501e tot 7 500e eenheid 0,66 vir elke daaropvolgende eenheid
Gerookte snoek.....	1 000 kg	6,00
Ingemaakte seeskulpdie.....	1 000 kg	6,00
Ingemaakte skaaldie.....	1 000 kg	12,00
Ingemaakte vis en ingemaakte visprodukte (uitgesonderd vissmeer)	1 000 kg	4,00
Ingemaakte vleis en ingemaakte vleisprodukte	1 000 kg	11,00 van 1e tot 1 000e eenheid 9,75 van 1 001e tot 3 000e eenheid 7,50 vir elke daaropvolgende eenheid
Vissmeer	1 000 kg	12,00
*VUURWAPENS		
22-randslagwapens	item	2,50
Rewolwers	item	4,00
Senterslaggewere en outomatiese pistole	item	3,25
Haelgewere:		
Dubbelloop	item	4,00
Enkelloop	item	3,75
Alle soorte vervangingslope	item	2,75
Gemodifiseerde rand- en senterslaggewere, rewolwers en outomatiese pistole	item	6,50
Gemodifiseerde haelgewere:		
Dubbelloop	item	7,50
Enkelloop	item	6,25

* Vir die toepassing van dié heffingsitem word geag dat die term "behandel", oral waar dit in die regulasies voorkom, die uitvoering insluit van die modifikasies waarop klousules 4.1.6 en 4.2.5 van die toepaslike verpligte standaardspesifikasie betrekking het; ook dat "heffingspligte" 'n persoon insluit wat sodanige modifikasies uitvoer.

Dit het die Minister voorts behaag om vuurwapens vervaardig in 'n land wat lidmaatskap hou van die Commission Internationale Permanent pour l'Epreuve des Armes à Feu Portative (CIP) en waarop die geldige proefmerk van so 'n land aangebring is, kragtens regulasie 4 van die regulasies van die toepassing van hierdie heffingsitem vry te stel.

† Tree in werking op 14 Mei 1983.

‡ Tree in werking op 1 Augustus 1982.

SCHEDULE 1

The amount payable shall be calculated per levy unit or part thereof to the next full unit.

Commodity	Levy unit	Rate per unit, R
ELECTRICAL EQUIPMENT		
Apparatus connectors for portable domestic appliances	100 items	0,50
Appliances (all types)	item	0,052 5
Flexible cords for power and lighting purposes	100 m	0,06
Lampholders and bayonet-cap lampholder adaptors	100 items	0,50
Plugs	100 items	0,12
Portable television antennae	item	0,05
Socket outlets	100 items	0,36
Socket outlet adaptors	100 items	0,20
Switches:		
(a) Appliance switches:		
Rated 16 A or less	100 items	0,24
Rated over 16 A	100 items	0,90
(b) All other switches, whether or not combined with socket outlets:		
Rated 16 A or less	100 items	0,24
Rated over 16 A	100 items	0,90
Television receivers:		
Colour	item	8,00
Monochrome	item	3,00
*FIRE-ARMS		
22 Rimfire arms	item	2,50
Revolvers	item	4,00
Centrefire rifles and automatic pistols	item	3,25
Shotguns:		
Double barrel	item	4,00
Single barrel	item	3,75
All types of replacement barrels	item	2,75
Modified rim and centrefire rifles, revolvers and automatic pistols	item	6,50
Modified shotguns:		
Double barrel	item	7,50
Single barrel	item	6,25

Commodity	Levy unit	Rate per unit, R
FOODSTUFFS		
Canned crustaceans	1 000 kg	12,00
Canned fish and canned fish products (other than fish paste)	1 000 kg	4,00
Canned marine molluscs	1 000 kg	6,00
Canned meat and canned meat products	1 000 kg	11,00 for 1st to 1 000th unit 9,75 for 1 001st to 3 000th unit 7,50 for each subsequent unit 12,00
Fish paste	1 000 kg	
Frozen fish, frozen fish products and frozen cephalopods: Finally processed	1 000 kg	2,75 for 1st to 500th unit 2,25 for 501st to 2 500th unit 2,00 for 2 501st to 7 500th unit 1,10 for each subsequent unit 1,65 for 1st to 500th unit 1,35 for 501st to 2 500th unit 1,20 for 2 501st to 7 500th unit 0,66 for each subsequent unit 12,50
For further processing	1 000 kg	
Frozen marine molluscs and frozen marine mollusc products	1 000 kg	12,50
Frozen rock lobster:		
Frozen rock lobster tails	10 kg	0,70
Frozen whole rock lobster, cooked or uncooked	30 kg	0,70
Smoked snoek	1 000 kg	6,00
PERSONAL FLOTATION AIDS		
†Swimming aids:		
Armbands	10 000 items	25,00
Rings	10 000 items	25,00
Other	500 items	50,00
†Life preservers:		
Life-jackets	50 items	15,00
Other	500 items	50,00
MOTOR VEHICLES AND REQUISITES		
‡Category M ₁ motor vehicles	item	1,80
Hydraulic brake fluid	100 litres	1,00
Protective helmets for motor cyclists	item	0,20

* In applying this levy item the term "treat", wherever it appears in the regulations, shall be deemed to include the performance of the modifications intended by clauses 4.1.6 and 4.2.5 of the relevant compulsory standard specification; moreover the term "levy-payer" shall be deemed to include the person who performs such modifications.

The Minister has furthermore been pleased, in terms of regulation 4 of the regulations, to exclude fire-arms manufactured in a member country of the Commission Internationale Permanente pour l'Epreuve des Armes à Feu Portative (CIP) and bearing the valid proof mark of such a country from the application of this levy item.

† Effective from 14 May 1983.

‡ Effective from 1 August 1982.

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