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30 JULY

[No. 1195.]

GOEWERMENTSKENNISGEWINGS.

DEPARTEMENT VAN ARBEID.

No. R. 1140.] [30 Julie 1965.]

WET OP VAKLEERLINGE, 1944 (WET No. 37
VAN 1944), SOOS GEWYSIG.

**NASIONALE VAKLEERLINGSKAPKOMITEE VIR
DIE MOTORNYWERHEID.**

Die volgende Goewermentskennisgewing word vir
algemene inligting herpubliseer:—

“No. 316.] [13 Februarie 1953.]

WET OP VAKLEERLINGE, 1944 (SOOS
GEWYSIG).

**INSTELLING VAN 'N NASIONALE VAKLEER-
LINGSKAPKOMITEE VIR DIE MOTOR-
NYWERHEID.**

Kragtens bevoegdheid my verleen by paragraaf (a) van
subartikel (1) van artikel vyf van die Wet op Vak-
leerlinge, 1944, soos gewysig, stel ek, BAREND JACOBUS
SCHOEMAN, Minister van Arbeid, 'n Nasionale Vak-
leerlingskapkomitee vir die Motornywerheid in die
Unie van Suid-Afrika in vanaf die datum van hierdie
kennisgewing.

B. J. SCHOEMAN,
Minister van Arbeid.”

No. R. 1141.] [30 Julie 1965.]

WET OP VAKLEERLINGE, 1944 (WET No. 37
VAN 1944), SOOS GEWYSIG.

**NASIONALE VAKLEERLINGSKAPKOMITEE VIR
DIE MOTORNYWERHEID.**

**VOORGENOME INTREKKING EN VOOR-
SKRYWING VAN LEERVOORWAARDES.**

Ek, ALFRED ERNEST TROLLIP, Minister van Arbeid,
handelende kragtens die bepalings van artikel *sestien*
van die Wet op Vakleerlinge, 1944, soos gewysig, is
voornemens om—

- (i) Goewermentskennisgewings Nos. 482 van 12
Maart 1954, 2206 van 29 Oktober 1954, 1508 van
17 Oktober 1958, 1606 van 9 Oktober 1959, 276
van 17 Februarie 1961 en R. 382 van 13 Maart
1964 soos toegepas by Goewermentskennisgewing
No. R. 882 van 12 Junie 1964, in te trek;

GOVERNMENT NOTICES.

DEPARTMENT OF LABOUR.

No. R. 1140.] [30 July 1965.]

APPRENTICESHIP ACT, 1944 (ACT No. 37 OF 1944),
AS AMENDED.

**NATIONAL APPRENTICESHIP COMMITTEE FOR
THE MOTOR INDUSTRY.**

The following Government Notice is hereby republished
for general information.

“No. 316.] [13 February 1953.]

APPRENTICESHIP ACT, 1944 (AS AMENDED).

**ESTABLISHMENT OF A NATIONAL COMMITTEE
FOR THE MOTOR INDUSTRY.**

Under and by virtue of the powers vested in me by
paragraph (a) of sub-section (1) of section five of the
Apprenticeship Act, 1944 (as amended), I, BAREND
JACOBUS SCHOEMAN, Minister of Labour, establish with
effect from the date of this notice a National Appren-
ticeship Committee for the Motor Industry in respect of
the Union of South Africa.

B. J. SCHOEMAN,
Minister of Labour.”

No. R. 1141.] [30 July 1965.]

APPRENTICESHIP ACT, 1944 (ACT No. 37 OF 1944),
AS AMENDED.

**NATIONAL APPRENTICESHIP COMMITTEE FOR
THE MOTOR INDUSTRY.**

**PROPOSED WITHDRAWAL AND PRESCRIPTION
OF CONDITIONS OF APPRENTICESHIP.**

I, ALFRED ERNEST TROLLIP, Minister of Labour,
acting in pursuance of the provisions of section *sixteen*
of the Apprenticeship Act, 1944, as amended, propose to—

- (i) withdraw Government Notices Nos. 482 of the
12th March, 1954, 2206 of the 29th October,
1954, 1508 of the 17th October, 1958, 1606 of the
9th October, 1959, 276 of the 17th February,
1961, and R. 382 of the 13th March, 1964, as
applied by Government Notice No. R. 882 of the
12th June, 1964;

- (ii) ondergenoemde ambagte as ambagte waarop die bepalings van die Wet van toepassing is, aan te wys vir die nywerheid en die gebied waarvoor die Nasionale Vakleerlingskapkomitee vir die Motor-nywerheid ingestel is:—

AMBAGTE.

Bakbou (18).
 Bekleding (16).
 Bekleding met inbegrip van verfspruitwerk (17).
 Dieselwerktuigkundige (7).
 Enjinpaswerk (8).
 Gereedskap en stempels maak (14).
 Motorasetileen- en elektriese sweiswerk (2).
 Motorbakherstelwerk (1).
 Motordraai- en masjienbewerking (6).
 Motorelektrisiën (3).
 Motorfiets- en bromponiewerktuigkundige (9).
 Motormasjien- en paswerk (4).
 Motorplaatmetaalwerk (5).
 Motorwerktuigkundige (10).
 Paneelwerk met inbegrip van verfspuitwerk (11).
 Paneelwerk met inbegrip van bekleding (12).
 Trekkerwerktuigkundige (15).
 Verfspuitwerk (13).

- (iii) die voorwaardes hieronder gemeld, as leervoerwaardes ten opsigte van die ambagte gemeld in paragraaf (ii) hiervan, voor te skryf ten opsigte van die nywerheid en gebied waarvoor die Nasionale Vakleerlingskapkomitee vir die Motor-nywerheid ingestel is; en

- (iv) ingevolge subartikel (7) van artikel *sestien* van die Wet te bepaal dat die bepalings van klousules 3, 4, 5, 6 en 7 van die leervoerwaardes hieronder gemeld, vanaf die datum van voorskrywing van genoemde leervoerwaardes van toepassing is ook op vakleerlinge wat in diens is in 'n ambag wat 'n aangewese ambag is of was in die nywerheid en gebied ten opsigte waarvan genoemde Komitee ingestel is.

VOORWAARDES.

1. KWALIFIKASIES VIR BEGIN VAN VAKLEERLINGSKAP.

Die minimum leeftyd en opvoedkundige kwalifikasies vir die begin van vakleerlingskap is 16 jaar en—

- (a) Standaard VII ten opsigte van die ambagte—

Bakbou (18);
 Bekleding (16);
 Bekleding met inbegrip van verfspuitwerk (17);
 Enjinpaswerk (8);
 Motorasetileen- en elektriese sweiswerk (2);
 Motorbakherstelwerk (1);
 Motorfiets- en bromponiewerktuigkundige (9);
 Motorplaatmetaalwerk (5);
 Paneelwerk met inbegrip van verfspuitwerk (11);
 Paneelwerk met inbegrip van bekleding (12);
 Verfspuitwerk (13); en

- (b) Standaard VIII ten opsigte van die ambagte—

Dieselwerktuigkundige (7);
 Gereedskap en stempels maak (14);
 Motordraai- en masjienbewerking (6);
 Motorelektrisiën (3);
 Motormasjien- en paswerk (4);
 Motorwerktuigkundige (10);
 Trekkerwerktuigkundige (15);

of 'n verklaring van prestasie uitgereik deur of namens die skool wat deur die voornemende vakleerling besoek is, waarin gemeld word dat hy op die Standaard VII-peil in die geval van (a) en die Standaard VIII-peil in die geval van (b) geslaag het in die vakke Afrikaans, Engels, Rekenkunde of Algemene Wiskunde en minstens een ander vak.

2. LEERTYD.

Die leertyd is—

- (a) vier jaar vir die ambagte bekleding (16), motorfiets- en bromponiewerktuigkundige (9), en verfspuitwerk (13); en
 (b) vyf jaar vir alle ander aangewese ambagte,

- (ii) designate for the Industry and the area for which the National Apprenticeship Committee for the Motor Industry was established the undermentioned trades as trades to which the provisions of the Act shall apply:—

TRADES.

Auto body repairing (1).
 Automotive acetelyne and electrical welding (2).
 Automotive electrician (3).
 Automotive machining and fitting (4).
 Automotive sheetmetalworking (5).
 Automotve turning and machining (6).
 Diesel mechanic (7).
 Engine fitting (8).
 Motor cycle and scooter mechanic (9).
 Motor mechanic (10).
 Panelbeating including spraypainting (11).
 Panelbeating including trimming (12).
 Spraypainting (13).
 Tool and diemaking (14).
 Tractor mechanic (15).
 Trimming (16).
 Trimming including spraypainting (17).
 Vehicle body building (18).

- (iii) prescribe the conditions set out hereunder as conditions of apprenticeship in respect of the trades specified in paragraph (ii) hereof in respect of the Industry and area for which the National Apprenticeship Committee for the Motor Industry was established; and

- (iv) determine in terms of sub-section (7) of section *sixteen* of the Act that the provisions of clauses 3, 4, 5, 6 and 7 of the conditions set out hereunder shall from the date of prescription of the said conditions of apprenticeship also apply to apprentices who are employed in any trade which is or was a designated trade in the Industry and area in respect of which the said Committee was established.

CONDITIONS.

1. QUALIFICATIONS FOR COMMENCING APPRENTICESHIP.

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

- (a) Standard VII in respect of the trades—

Auto body repairing (1);
 Automotive acetylene and electrical welding (2);
 Automotive sheetmetalworking (5);
 Engine fitting (8);
 Motor cycle and scooter mechanic (9);
 Panelbeating including spraypainting (11);
 Panelbeating including trimming (12);
 Spraypainting (13);
 Trimming (16);
 Trimming including spraypainting (17);
 Vehicle body building (18); and

- (b) Standard VIII in respect of the trades—

Automotive electrician (3);
 Automotive machining and fitting (4);
 Automotive turning and machining (6);
 Diesel mechanic (7);
 Motor mechanic (10);
 Tool and diemaking (14);
 Tractor mechanic (15);

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 the case of (a) and Standard VIII level in the case of (b) in the subjects Afrikaans, English, Arithmetic or General Mathematics and at least one other subject.

2. PERIOD OF APPRENTICESHIP.

The period of apprenticeship shall be—

- (a) four years in the trades of motor cycle and scooter mechanic (9), spraypainting (13) and trimming (16); and
 (b) five years in all other designated trades.

3. LONE.

(a) 'n Werkgewer moet 'n vakleerling weekliks 'n besoldiging betaal teen minstens die skaal hieronder gespesifiseer:—

Gebied A. Gebied B.

	R	R
(i) Vierjaarambagte—		
Eerste jaar.....	9.60	9.00
Tweede jaar.....	11.20	10.50
Derde jaar.....	12.80	12.00
Vierde jaar.....	16.00	15.00

(ii) Vyfjaarambagte—		
Eerste jaar.....	9.60	9.00
Tweede jaar.....	11.20	10.50
Derde jaar.....	12.80	12.00
Vierde jaar.....	14.72	13.80
Vyfde jaar.....	17.28	16.20

(b) By die toepassing van hierdie klousule, omvat besoldiging ook die lewenskostoelae wat ooreenkomstig die skale soos geproklameer ingevolge Oorlogsmaatreël No. 43 van 1942, soos van tyd tot tyd gewysig, of ingevolge 'n loonreëlende maatreël betaalbaar is.

(c) (i) 'n Werkgewer moet die besoldiging voorgeskryf in subklousule (a), ten opsigte van elke vakleerling wat in besit is van of wat enigen van die opvoedkundige kwalifikasies in die lys onder subklousule (b) van klousule 6, gemeld, verwerf, of wat die Nasionale Diploma besit of verwerf, aanvul met minstens die bedrag hieronder genoem:

Per week.

	R
Groep I.....	0.50
Groep II.....	1.00
Groep III.....	1.50
Groep IV.....	2.00
Groep V.....	2.50
Nasionale Diploma.....	4.00

(ii) Enige bedrag waarop 'n vakleerling ingevolge paragraaf (i) hiervan geregtig is, moet, waar die betrokke sertifikaat gedurende sy leertyd verwerf is, betaal word vanaf die datum van uitreiking daarvan.

(d) Indien 'n werkgewer en 'n voornemende meerderjarige vakleerling, voordat hulle 'n vakleerlingkontrak aangaan, ooreenkom dat 'n hoër besoldiging betaal moet word as die wat in subklousule (a) voorgeskryf word, moet sodanige hoër besoldiging in die kontrak gemeld en aan die vakleerling betaal word.

(e) Vir die toepassing van hierdie klousule word die Republiek van Suid-Afrika in gebiede A en B verdeel soos hieronder aangedui:—

GEBIED A.

Westelike Kaaprovinsie.—Die landdrostrikte Bellville, die Kaap, Paarl, Simonstad, Somerset-Wes (uitgesonderd die gebied geokkupeer deur die Cape Explosives Works, Ltd., Somerset-Wes), Stellenbosch, Wellington, Worcester en Wynberg.

Grens.—Die landdrostrik Oos-Londen.

Oostelike Kaaprovinsie.—Die munisipale gebiede van Port Elizabeth, Despatch, Grahamstad, Uitenhage en Walmer.

Oranje-Vrystaat.—Die landdrostrik Bloemfontein, die munisipale gebied van Welkom en die gebied wat onder die beheer van die Dorpsraadsbestuur van Sasolburg val.

Noordelike Kaaprovinsie.—Die munisipale gebied van Kimberley.

Durban.—Die landdrostrikte Durban en Pinetown.

Pietermaritzburg.—Die landdrostrik Pietermaritzburg.

Suid-Transvaal.—Die munisipale gebiede van Alberton, Benoni, Boksburg, Brakpan, Edenvale, Germiston, Heidelberg (Tvl.), Johannesburg, Kempton Park, Krugersdorp, Nigel en Randburg, die gebiede wat onder die beheer val van die Komitees vir Plaaslike Bestuur, gestig kragtens die Ordonnansie tot Instelling van 'n Gesondheidsraad vir Buite-Stedelike Gebiede, 1943 (Transvaal), vir Noordelike Johannesburg, Noord-oostelike Johannesburg, Noord-weslike Johannesburg en Westelike Johannesburg; die landdrostrikte Oberholzer en Randfontein en die munisipale gebiede van Roodepoort-Maraisburg, Springs, Vanderbijlpark en Vereeniging.

Noord-Transvaal.—Die munisipale gebiede van Pretoria en Lyttelton, die gebied wat onder die beheer val van die Komitee vir Plaaslike Bestuur, gestig kragtens die Ordonnansie tot Instelling van 'n Gesondheidsraad vir Buite-Stedelike Gebiede, 1943 (Transvaal), vir Halfweghuis en die gebied geokkupeer deur die Dorpsgebied No. 3, Clayville, in die landdrostrik Pretoria.

3. RATES OF WAGES.

(a) An employer shall remunerate an apprentice weekly at not less than the rates specified hereunder:—

Area A. Area B.

	R	R
(i) In four-year trades—		
First year.....	9.60	9.00
Second year.....	11.20	10.50
Third year.....	12.80	12.00
Fourth year.....	16.00	15.00

(ii) In five-year trades—		
First year.....	9.60	9.00
Second year.....	11.20	10.50
Third year.....	12.80	12.00
Fourth year.....	14.72	13.80
Fifth year.....	17.28	16.20

(b) For the purpose of this clause remuneration shall include cost of living allowance payable in accordance with the rates proclaimed in terms of War Measure No. 43 of 1942, as amended from time to time, or under any wage regulating measure.

(c) (i) An employer shall supplement the remuneration prescribed in sub-clause (a) by an amount not less than that indicated hereunder in respect of every apprentice who is in possession of or attains any of the educational qualifications scheduled in sub-clause (b) of clause 6, or who possesses or attains the National Diploma:

Per week.

	R
Group I.....	0.50
Group II.....	1.00
Group III.....	1.50
Group IV.....	2.00
Group V.....	2.50
National Diploma.....	4.00

(ii) Any amount to which an apprentice is entitled in terms of paragraph (i) hereof shall where the relevant certificate is attained during apprenticeship, be payable as from the date of issue thereof.

(d) If an employer and a prospective major apprentice agree, before entering into a contract of apprenticeship, that remuneration shall be paid at rates higher than those prescribed in sub-clause (a), such higher rates of remuneration shall be recorded in the contract and shall be paid to the apprentice.

(e) For the purpose of this clause the Republic of South Africa is divided into Areas A and B as indicated hereunder:—

AREA A.

Cape Western Region.—The Magisterial Districts of Bellville, the Cape, Paarl, Simonstown, Somerset West (excluding the area occupied by the Cape Explosives Works, Ltd., Somerset West), Stellenbosch, Wellington, Worcester and Wynberg.

Border Region.—The Magisterial District of East London.

Cape Eastern Region.—The municipal areas of Port Elizabeth, Despatch, Grahamstown, Uitenhage and Walmer.

Orange Free State Region.—The Magisterial District of Bloemfontein, the municipal area of Welkom and the area falling under the jurisdiction of the Village Management Board for Sasolburg.

Cape Northern Region.—The municipal area of Kimberley.

Durban Region.—The Magisterial Districts of Durban and Pinetown.

Pietermaritzburg Region.—The Magisterial District of Pietermaritzburg.

Southern Transvaal Region.—The municipal areas of Alberton, Benoni, Boksburg, Brakpan, Edenvale, Germiston, Heidelberg (Tvl.), Johannesburg, Kempton Park, Krugersdorp, Nigel and Randburg, the areas within the jurisdiction of the Local Areas Committees for Northern Johannesburg, North-eastern Johannesburg, North-western Johannesburg and Western Johannesburg, established in terms of the Peri-Urban Areas Health Board Ordinance, 1943 (Tvl.), the Magisterial Districts of Oberholzer and Randfontein and the municipal areas of Roodepoort-Maraisburg, Springs, Vanderbijlpark and Vereeniging.

Northern Transvaal Region.—The municipal areas of Pretoria and Lyttelton, the area falling within the jurisdiction of the Local Area Committee established for Halfway House in terms of the Peri-Urban Areas Health Board Ordinance of 1943 (Transvaal) and the area occupied by Clayville No. 3 Township, in the Magisterial District of Pretoria.

GEBIED B.

Die Republiek van Suid-Afrika, uitgesonderd die gebiede wat onder gebied A ingedeel is.

4. TEGNIESE STUDIES.

(a) 'n Vakleerling wat nie alreeds ten opsigte van vakke wat betrekking het op die ambag waarvoor hy ingeskryf is, in besit van die sertifikaat of die alternatiewe kwalifikasie wat in subklousule (b) van hierdie klousule voorgeskryf word, is nie, moet tegniese klasse bywoon wat met sodanige ambag in verband staan, en sodanige klasse moet gegee word ooreenkomstig die leerplanne wat deur die Departement van Onderwys, Kuns en Wetenskap voorgeskryf word vir die Nasionale Tegniese Sertifikaat, Deel I en Deel II, en moet bygewoon word by die naaste tegniese inrigting wat uitsluitlik of gedeeltelik uit openbare fondse in stand gehou word; met dien verstande dat waar daar geen fasiliteite vir die bywoning van klasse in enige kursus of 'n gedeelte daarvan binne 12 myl vanaf die vakleerling se woning beskikbaar is nie of waar daar van hom vereis word om klasse gedurende die gewone werkure by te woon en sy werkplek nie binne 12 myl vanaf sodanige inrigting geleë is nie, hy in plaas van sodanige bywoning 'n korrespondensiekursus mag volg wat deur die Witwatersrandse Tegniese Kollege vir genoemde kursus of 'n gedeelte daarvan gegee word.

(b) 'n Vakleerling moet tegniese klasse bywoon of korrespondensiekursusse volg totdat hy in die eksamen vir die Nasionale Tegniese Sertifikaat, Deel II, geslaag het; met dien verstande dat 'n vakleerling wat in die eksamen vir genoemde sertifikaat druipe maar wat wel slaag in die ambagsteorie wat betrekking het op die ambag waarvoor hy ingeboek is, nie verdere klasse hoef by te woon of verdere korrespondensiekursusse hoef te volg nie, na gelang van die geval.

(c) Gedurende die eerste jaar van die gewone leertyd geskied die bywoning van tegniese klasse gedurende die gewone werkure of vyf dae van die week vir die tydsduur van enige aaneenlopende studiekursus wat deur die betrokke tegniese inrigting aangebied word of waar 'n aaneenlopende studiekursus nie beskikbaar is nie, so naby doenlik vir—

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

(ii) of vier uur op elkeen van twee dae per week,

maar in geen geval mag bywoning later as 7.15 nm. duur nie. Die verpligte bywoning van klasse gedurende die tweede en enige daaropvolgende jaar van die vakleerlingskap geskied buite die gewone werkure; met dien verstande dat, as 'n vakleerling 'n sertifikaat van die betrokke tegniese inrigting toon waarin gemeld word dat hy bevredigende punte vir ywer en vordering behaal het, hy nog die klasse gedurende werkure moet bywoon op die grondslag soos vir die eerste jaar voorgeskryf.

(d) 'n Vakleerling wat 'n korrespondensiekursus ooreenkomstig die bepalings van subklousule (a) en (b) volg, moet, waar die Registrateur van Vakleerlinge 'n studieplek vir sodanige korrespondensiekursus bepaal het, by sodanige plek studeer, en die bepalings van subklousule (c) is *mutatis mutandis* op sodanige vakleerling van toepassing.

(e) Ondanks die bepalings van subklousule (b), word daar nie van 'n vakleerling wat, nadat hy twee jaar lank klasse bygewoon het of 'n korrespondensiekursus gevolg het, nie 'n Nasionale Tegniese Sertifikaat, Deel I, met die teorie van die ambag waarvoor hy ingeboek is, as een van die vakke waarin daar geslaag is, behaal het nie, vereis om, na gelang van die geval, verdere klasse by te woon of verdere korrespondensiekursusse te volg nie.

(f) Van 'n vakleerling wat, as gevolg daarvan dat hy militêre opleiding ingevolge die Verdedigingswet (No. 44 van 1957), soos gewysig, moet ondergaan, vir minstens twee kwartale in enige akademiese jaar nie daartoe in staat is om tegniese klasse by te woon of om 'n korrespondensiekursus te volg nie, word daar nie vereis om sy studies gedurende sodanige jaar voort te sit nie.

(g) Die bepalings van subklousule (c) en (d) is *mutatis mutandis* van toepassing op 'n vakleerling wat voldoen het aan die bepalings van subklousule (b) of wat reeds in besit is van 'n hoër tegniese kwalifikasie en vrywillig sy studies in verband met die ambag waarvoor hy ingeboek is, voortsit.

5. BETALING VAN KLAS- OF KURSUS- EN EKSAMENGELDE.

'n Werkgewer moet die klas- of kursus- en eksamengelde voorskiet wat aan die tegniese inrigting betaalbaar is deur 'n vakleerling van wie daar vereis word of wat kragtens subklousule (g) van klousule 4 verkies om klasse by te woon of korrespondensiekursusse te volg of vir 'n eksamen in te skryf, en die werkgewer moet sodanige gelde aan die betrokke tegniese inrigting betaal en mag die volle bedrag aldus voorgeskiet, van die loon van die vakleerling aftrek in gelyke weeklikse paaiemente gedurende die kalenderjaar of die res van die kalenderjaar ten opsigte waarvan die voorskot gemaak is, na gelang van die geval; met dien verstande dat—

(i) indien die vakleerling 'n sertifikaat van die betrokke inrigting toon waarin verklaar word dat hy bevredigende punte vir ywer en vordering behaal het en, behoudens gemagtigde afwesigheid, beide in sy eie tyd en gedurende gewone werkure minstens 90 persent van die moontlike

AREA B.

The Republic of South Africa excluding the areas falling within Area A.

4. TECHNICAL STUDIES.

(a) An apprentice who is not already in possession of the certificate or the alternative qualification prescribed in sub-clause (b) of this clause, in subjects related to the trade to which he is indentured, shall attend technical classes, relevant to such trade and in accordance with the syllabuses prescribed by the Department of Education, Arts and Science for the National Technical Certificates, Parts I and II, and conducted by the nearest technical institution maintained wholly or partly from public funds; provided that where facilities for class attendance in any course or part thereof do not exist within 12 miles of the apprentice's residence or where attendance is required of him during ordinary working hours and his working place is not situated within 12 miles of such institution, he may in lieu of attendance take a correspondence course conducted by the Witwatersrand Technical College for the said course or part thereof.

(b) An apprentice shall attend technical classes or take correspondence courses until he passes the National Technical Certificate, Part II; 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 to which he is indentured, shall not be required to attend further classes or take further correspondence courses, as the case may be.

(c) During the first year of the normal period of apprenticeship, attendance at technical classes shall take place during the ordinary working hours on five days per week for the duration of any continuous course of study conducted by the technical institution concerned, or where a continuous course of study is not available, 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;

but in neither case shall attendance extend beyond 7.15 p.m. Compulsory attendance of classes during the second or any subsequent year of apprenticeship shall be outside ordinary working hours; provided that if an apprentice produces a certificate from the technical institution concerned that he has obtained satisfactory marks for diligence and progress, he shall continue to attend classes during working hours on the basis prescribed for the first year.

(d) An apprentice taking a correspondence course in terms of sub-clauses (a) and (b) shall, where the Registrar of Apprenticeship has determined a place for the study of such a correspondence course, study at such place and the provisions of sub-clause (c) shall *mutatis mutandis* apply to such apprentice.

(e) Notwithstanding the provisions of sub-clause (b), an apprentice who after two years class attendance or after taking a correspondence course for two years, has not attained a National Technical Certificate, Part I, with one of the subjects passed being the theory of the trade to which he is indentured, shall not be required to attend any further classes or take any further correspondence courses, as the case may be.

(f) An apprentice who as a result of having to undergo military training in terms of the Defence Act (No. 44 of 1957), as amended, is unable to attend technical classes or follow a correspondence course for at least two terms in any academic year, shall not be required to pursue his studies during such year.

(g) The provisions of sub-clauses (c) and (d) shall *mutatis mutandis* apply to an apprentice who has complied with the provisions of sub-clause (b) or who is already in possession of a higher technical qualification and voluntarily pursues studies relevant to the trade to which he is indentured.

5. PAYMENT OF CLASS OR COURSE AND EXAMINATION FEES.

An employer shall advance the class or course and examination fees payable to the technical institution by an apprentice who is required, or who in terms of sub-clause (g) of clause 4 elects, to attend any classes or follow correspondence courses or enter for any examination, to the technical institution concerned and may deduct the full amount advanced, from the wages of the apprentice in equal weekly instalments during the calendar year or the balance of the calendar year in respect of which the advance was made, as the case may be; provided that—

(i) if the apprentice produces a certificate from the institution concerned that he has obtained satisfactory marks for diligence and progress and, subject to authorised absences, attended both in his own time and during ordinary working hours at least 90 per cent of the possible number of

getal klasse bygewoon het of, in die geval van 'n korrespondensiekursus, minstens 90 persent van die volle getal vraestelle gedurende daardie kalenderjaar voltooi het, die bedrag wat ten opsigte van klas- of kursusgelde afgetrek is, deur die werkgever aan die vakleerling terugbetaal moet word;

- (ii) indien 'n vakleerling bewys lewer dat hy in 'n eksamen vak geslaag het, die eksamengeld wat ten opsigte van sodanige eksamen vak van sy besoldiging afgetrek is, deur die werkgever aan die vakleerling terugbetaal moet word.

6. AMBAGSTOETSE.

(a) 'n Vakleerling moet so kort moontlik voor die einde van sy tydperk van vakleerlingskap 'n ambagstoets, wat deur die Departement van Arbeid en die Departement van Onderwys, Kuns en Wetenskap afgeneem word, aflê in die praktyk van die ambag waarvoor hy ingeboek is.

(b) 'n Vakleerling wat die onderwyskwalifikasies wat in onderstaande lys gemeld word of gelykwaardige kwalifikasies verwerf het, mag 'n kwalifiserende ambagstoets vrywillig ondergaan in 'n stadium wat nie vroeër mag wees nie as dié in die lys hieronder gemeld. 'n Verdere vrywillige toets of toetse mag onderneem word op 'n datum of datums wat deur die Departement van Arbeid en die Departement van Onderwys, Kuns en Wetenskap bepaal word.

	Toets mag vrywillig afgeleg word.	
Opvoedkundige kwalifikasies behaal voor of gedurende vakleerlingskap.	In ambagte wat vyf jaar opleiding vereis.	In ambagte wat vier jaar opleiding vereis.
GROEP I.		
(a) St. IX- of gelykwaardige sertifikaat, met Wiskunde as een vak waarin daar geslaag is	Na 4½ jaar	Na 3½ jaar
(b) Matrikulasie- of gelykwaardige sertifikaat sonder Wiskunde as een van die vakke waarin daar geslaag is		
(c) Nasionale Senior Sertifikaat (nie-tegnies) sonder Wiskunde as 'n vak waarin daar geslaag is		
GROEP II.		
(a) Matrikulasie- of gelykwaardige sertifikaat, met Wiskunde as een van die vakke waarin daar geslaag is	Na 4 jaar	Na 3½ jaar
(b) Nasionale Senior Sertifikaat (nie-tegnies) (Matrikulasievystelling), met Wiskunde as een van die vakke waarin daar geslaag is		
(c) Ambagsteorie waarin daar op die peil van Nasionale Tegniese Sertifikaat, Deel II, geslaag is		
GROEP III.		
(a) Nasionale Ambagskoolsertifikaat.....	Na 3½ jaar	Na 3 jaar
(b) Nasionale Junior Sertifikaat (Tegnies), met Werkwinkelpraktyk as een van die vakke waarin daar geslaag is		
(c) Nasionale Tegniese Sertifikaat, Deel II		
(d) Nasionale Intermediêre Sertifikaat (Tegnologie) sonder Werkwinkelpraktyk as een van die vakke waarin daar geslaag is		
GROEP IV.		
(a) Nasionale Tegniese Sertifikaat, Deel III	Na 3 jaar	Na 2½ jaar
(b) Nasionale Intermediêre Sertifikaat (Tegnologie), met Werkwinkelpraktyk as een van die vakke waarin daar geslaag is		
(c) Nasionale Senior Sertifikaat (Tegnologie) sonder Werkwinkelpraktyk as een van die vakke waarin daar geslaag is		
GROEP V.		
(a) Nasionale Senior Sertifikaat (Tegnologie), met Werkwinkelpraktyk as een van die vakke waarin daar geslaag is	Na 2½ jaar	Na 2 jaar

(c) 'n Bedrag van R6 is deur 'n vakleerling betaalbaar ten opsigte van die tweede of enige daaropvolgende poging om in 'n kwalifiserende ambagstoets te slaag wat op 'n vrywillige grondslag kragtens hierdie klousule onderneem word.

(d) 'n Vakleerling wat 'n ambagstoets ingevolge hierdie klousule ondergaan, moet ten opsigte van die tydperk wat bestee word in verband met een vrywillige ambagstoets en die verpligte ambagstoets, sy gewone besoldiging deur sy werkgever betaal word ten opsigte van sodanige tydperk van afwesigheid van werk.

(e) 'n Tydperk van afwesigheid van werk vir die doel om 'n ambagstoets ingevolge subklousule (a) en (b) van hierdie klousule te ondergaan, word nie geag verlore tyd te wees nie.

classes, or in the case of a correspondence course satisfactorily completed at least 90 per cent of the full number of papers during that calendar year, the sum deducted in respect of class or course fees shall be refunded to the apprentice by the employer;

- (ii) If an apprentice produces proof that he has passed in any examination subject, the fee deducted from his remuneration in respect of the examination subject, shall be refunded to the apprentice by the employer.

6. TRADE TESTS.

(a) An apprentice shall undergo a trade test, conducted by the Department of Labour and of Education, Arts and Science, as shortly as practicable before the end of his period of apprenticeship, in the practice of the trade in which he is indentured.

(b) An apprentice who has attained educational qualifications scheduled hereunder or equivalents, may voluntarily undergo a qualifying trade test at a stage not earlier than that indicated in the Schedule. A further voluntary test or tests may be undertaken on a date or dates to be determined by the Department of Labour and of Education, Arts and Science.

Educational Qualifications attained prior to or during Apprenticeship.	Test may be taken voluntarily.	
	In five-year trades.	In four-year trades.
GROUP I. (a) Std. IX or equivalent certificate with Mathematics as one subject of success (b) Matric or equivalent certificate <i>without</i> Mathematics as one subject of success (c) National Senior Certificate (non-technical) <i>without</i> Mathematics as one subject of success	After 4½ years	After 3½ years
GROUP II. (a) Matric or equivalent certificate with Mathematics as one subject of success (b) National Senior Certificate, non-technical Matric exemption) with Mathematics as one subject of success (c) Trade Theory pass at National Technical Certificate, Part II, level	After 4 years	After 3½ years
GROUP III. ((a) National Trade School Certificate.... (b) National Junior Certificate (technical) with Workshop Practice as one subject of success (c) National Technical Certificate, Part II (d) National Intermediate Certificate (Technology) <i>without</i> Workshop Practice as one subject of success	After 3½ years	After 3 years
GROUP IV. (a) National Technical Certificate, Part III (b) National Intermediate Certificate (Technology) with Workshop Practice as one subject of success (c) National Senior Certificate (Technology) <i>without</i> Workshop Practice as one subject of success	After 3 years	After 2½ years
GROUP V. (a) National Senior Certificate (Technology) with Workshop Practice as one subject of success	After 2½ years	After 2 years

(c) A fee of R6 shall be payable by an apprentice in respect of the second or any subsequent attempt at a qualifying trade test undertaken on a voluntary basis in terms of this clause.

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

(e) A period of absence from work for the purpose of undergoing a trade test in terms of sub-clauses (a) and (b) of this clause shall not be deemed to be lost time.

7. OPLEIDINGSKURSUSSE.

'n Werkgever moet 'n vakleerling die praktiese opleiding in die ambag waarvoor hy ingeboek is, gee volgens en, vir sover prakties moontlik, in die volgorde vervat in die Bylae van hierdie klousule. 'n Vakleerling moet, vir sover prakties moontlik, opgelei word onder die gereelde toesig van 'n ambagsman wat bevoeg is om hom op te lei in die ambag waarvoor hy ingeboek is.

BYLAE.

Simbole toegewys vir doeleindes van vakleerling se logboek.	Praktiese opleiding.
	AMBAG: BAKBOU (18).
	EERSTE 18 MAANDE.
1.	Hantering, regte gebruik en versorging van gereedskap en uitrusting.
2.	Veiligheidsmaatreëls wat in werkwinkel nagekom moet word.
3.	Kennis van materiaal wat vir vervaardiging en heelmak van staal- en saamgestelde voertuigbakke gebruik word.
4.	Elementêre reparasie aan bakke.
5.	Afwerking van lasplekke aan fyn en grôwwe hout.
6.	Waar geriewe bestaan, kennis en gebruik van—
(a)	metaalwerkmasjinerie, krag en hand; en
(b)	reaksie van metaal op masjienbewerking.
	19DE MAAND TOT EINDE VAN VIERDE JAAR.
7.	Afwerking van metaal.
8.	Klinkwerk en maak van lasse.
9.	Montering van bakke.
10.	Lees van tekenings.
11.	Afmerk vir heelmak en vervaardiging.
12.	Elektriese en gassweiswerk.
13.	Praktiese afmerkwerk.
14.	Vervaardiging van metaaldele met die hand en masjien.
15.	Binneafwerking van bakke.
16.	Algemene bakbou en herstelwerk, insluitende alle sweisprosesse en spesiale prosedures vir bewerking van metaal wat in die ambag van toepassing is.
	VYFDE JAAR.
	Hersiening.
	AMBAG: BEKLEDING (16).
	EERSTE 18 MAANDE.
1.	Hantering, regte gebruik en versorging van gereedskap en uitrusting.
2.	Veiligheidsmaatreëls wat in die werkwinkel nagekom moet word.
3.	Uitmekaarhaal van kappe, sitplekke, koepelvoerings, deur- en bakbekledingspanele.
4.	Opstop van sitplekke en insit van sitplekvere.
5.	Skoonmaak, olie en stel van naaimasjiene.
	19DE MAAND TOT DERDE JAAR.
6.	Afmerk en uitsny volgens werkpatrone, monsters of tekenings.
7.	Gebruik van regte materiaal.
8.	Maak en heelmak van—
(a)	sitplekke;
(b)	rugkussings;
(c)	deurbekleedsels; en
(d)	kap- en dakvoerings.
9.	Herstel van vensteropdraaiers en deurslotte.
10.	Stof- en waterdig maak.
11.	Alle glas afhaal en insit.
	VIERDE JAAR.
	Hersiening.
	AMBAG: BEKLEDING, MET INBEGRIIP VAN VERFSUITWERK (17).
	EERSTE 18 MAANDE.
1.	Hantering, regte gebruik en versorging van gereedskap en uitrusting.
2.	Veiligheidsmaatreëls wat in die werkwinkel toegepas moet word.
3.	Uitmekaarhaal van kappe, sitplekke, koepelvoerings, deur- en bakbekledingspanele.
4.	Opstop van sitplekke en insit van sitplekvere.
5.	Skoonmaak, olie en stel van naaimasjiene.
6.	Alle glas afhaal en insit.

7. COURSES OF TRAINING.

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

SCHEDULE.

Symbols allocated for purposes of apprentice's log book.	Practical training.
	TRADE: AUTO BODY REPAIRING (1).
	FIRST 18 MONTHS.
1.	Handling, correct use and care of tools and equipment, including—
(a)	dolleys;
(b)	hammers and beating tools;
(c)	levers;
(d)	spoons;
(e)	spanners, punches, chisels and clamps;
(f)	wiping blocks;
(g)	files and sandpaper;
(h)	heating, blow-lamps and gas torches;
(i)	electric drills and riveting machines;
(j)	electric grinders, stocks and dies;
(k)	"Portopower" jacks and their component operating parts, such as extension bars, top and bottom pushing tools, spreaders and secondary jacks and their support bars;
(l)	heavy hydraulic jacks and their ancillary parts for anchoring, stretching, pulling and setting, including anchoring and uses of chains;
(m)	gauges for aligning chassis and mono-construction bodies; and
(n)	portable gauges for aligning wheels—where facilities exist.
2.	Stripping of damaged parts of bodywork and care of such parts and their fastenings with regard to their eventual replacement.
3.	Simple panelbeating repairs, on and off the vehicle.
4.	Simple wiping, filing and grinding.
5.	Heating, cutting, welding and brazing of common sheet iron by acetylene gas torches and heating by blowlamp.
6.	Welding of alloys.
7.	Filling of dents with zinc alloys and plastics.
8.	Where facilities exist—simple electric welding.
	19TH MONTH TO END OF FOURTH YEAR.
9.	Instruction and practice in stretching and shrinking of sheet metal; explanations of its effects.
10.	Advanced wiping, filing, grinding and filling with solder or plastics.
11.	Major repairs:—
(a)	Testing and repair of fuel tanks with necessary precautions to be taken regarding explosions and fires;
(b)	repairing of radiator tanks and minor repairs to cooling tubes and fins;
(c)	repairing of radiator grills and stainless steel, chrome plated and aluminium beadings;
(d)	removing and replacing of body panels and sheet-metal parts and installing new panels and other such parts;
(e)	trueing of door and window framing and in maintaining or recreating correct apertures and clearances for these;
(f)	rechanging of doors with adjustments to hinges; attention to clearances; refitting and setting of door locks and slam plates; fitting of channels;
(g)	correction of body distortion in supported and mono-construction bodies;
(h)	matching part shapes such as fenders and door panels;
(i)	repairs and reforming of metal profiles, built-in moulding, door and window framing and metal beads;
(j)	advanced acetylene welding of steel and alloys and where facilities exist, electric welding;
(k)	planishing and finishing of panels prior to paint finish;
(l)	removal and replacement of suspension parts;
(m)	dust and waterproofing of previously assembled and repaired bodies;
(n)	repair and installation of windows, window mechanisms, window winders, door handles and door locks; and

Simbole toegewys vir doeleindes van vakleerling se logboek.	Praktiese opleiding.	Symbols allocated for purposes of apprentice's log book.	Practical training.
	19DE MAAND TOT EINDE VAN VIERDE JAAR.	(o)	where facilities exist—heating, reshaping and finishing of heavy gauge and bar metals such as bumpers, bumper stays and chassis members; chassis straightening and aligning; wheel aligning with portable gauges.
7.	Afmerk en uitsny volgens werkpatrone, monsters of tekenings.		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.
8.	Gebruik van regte materiaal.	12.	Testing for proper connections and working components in electrical fittings and lightings; focusing of headlamps.
9.	Maak en heelmaak van—		
(a)	sitplekke;		
(b)	rugkussings;		
(c)	deurbekleedsels; en		
(d)	kap- en dakvoerings.		
10.	Herstel van—		
(a)	vensteropdraaiers; en		
(b)	deurslotte.		
11.	Stof- en waterdig maak.		
12.	Verfspuitwerk.		
	VYFDE JAAR.		FIFTH YEAR.
	Hersiening.		Revision.
	AMBAG: DIESELWERKTUIGKUNDIGE (7).		TRADE: AUTOMOTIVE ACETYLENE AND ELECTRICAL WELDING (2).
	EERSTE 18 MAANDE.		FIRST 18 MONTHS.
1.	Veiligheidsmaatreëls wat in werkwinkel nagekom moet word.	1.	Handling and care of tools, shop equipment, motor vehicle parts and motor vehicles under repair.
2.	Sorg vir voertuie.	2.	Safety precautions to be observed in workshop.
3.	Veilige bestuurgewoontes.	3.	Oxy-acetylene and electrical welding and cutting of a simple nature.
4.	Uitken, hanteer, regte gebruik en versorging van gereedskap, uitrusting en alle tipes sleutels, insluitende—	4.	Reading of drawings.
(a)	die wringsleutel;		
(b)	ponse en dryfysters;		
(c)	bore, ruimers, stok en snymoere en snytappe;		
(d)	staalliniale, verdeelpassers, meetpassers en kraspenne;		
(e)	metaalsae;		
(f)	leerlate, mikrometers (binne en buite), wysermeters en silindermeters;		
(g)	hidrouliese domkragte, bokke, rolmatte (kruipers) en hystoestelle;		
(h)	kompressors;		
(i)	slypmasjiene; en		
(j)	sluittoestelle.		
5.	Waar geriewe bestaan—insleep, gewoon en met takelwa.		
6.	Smeer van en diens gee aan voertuie—		
(a)	gebruik van verskillende grade en soorte olies en ghries;		
(b)	metodes van aftap, uitspoel, diens gee aan en volmaak van enjinoliebakke, ratkaste en agterasomhulsels; en		
(c)	diens gee aan batterye: elektroliet opvul, batterkas, aansluitpenne en kables skoonmaak.		
7.	Onderrig in generatorlaaistelsels.		
8.	Ondersoek en vasstelling van slytasie—		
(a)	in silinders;		
(b)	aan krukasse;		
(c)	hoof- en grootkopastappe;		
(d)	nokas-tappe;		
(e)	nokvolgers;		
(f)	kleppe en leiers;		
(g)	suiers en suierpenne; en		
(h)	tuumelaars en asse.		
9.	Ontkool; inslyp van kleppe; terugsit van silinderkop (met gebruik van wringsleutel en regte vasdraai-volgorde) en stel van klepspeling.		
10.	Padwiele: afhaal en terugsit van wiele, buite- en binnebande; rotasie van wiele.		
11.	Afhaal en terugsit van—		
(a)	koppelaars;		
(b)	ratkaste;		
(c)	dryfasse en kruiskoppelings;		
(d)	vere en hangers;		
(e)	vooras-samestelle;		
(f)	agter-samestelle;		
(g)	skokbrekers en dempstelsels;		
(h)	enjinsamestelle;		
(i)	enjintoebehoere;		
(j)	stuurkaste en skakelings;		
(k)	veringeenhede;		
(l)	remskoensamestelle; en		
(m)	uitlaateenhede.		
12.	Enjineenhede: uitmekaarhaal en volledige inmeekaarsit van enjin, insluitende opknapping en insit van—		
(a)	suiers, ringe en suierpenne;		
(b)	hoof- en grootkoplaars;		
			19TH MONTH TO END OF FOURTH YEAR.
			Servicing, testing and timing of magnetos.
			Overhauling, testing and polarising of generators.
			Care and operation of equipment used in diagnosis and testing of automotive electrical components.
			Battery and coil ignition systems: testing coil and condenser and ballast resistance.
			Distributor:—
			Checking shaft, bushes and cam for wear; and installation of bushes; servicing and aligning contact points; checking dwell and synchronising points.
			Setting ignition timing and adjusting for engine condition and altitude.
			Use of:—
			timing lights;
			tachometer; and
			vacuum gauge.

Simbole toegewys vir doeleindes van vakleerling se logboek.	Praktiese opleiding.	Symbols allocated for purposes of apprentice's log book.	Practical training.
	AMBAG: GEREEDSKAP EN STEMPELS MAAK (14).		19TH MONTH TO END OF FOURTH YEAR.
	EERSTE 18 MAANDE.	8.	Supervised exercises in all operations mentioned above.
1.	Hantering, regte gebruik en versorging van gereedskap en uitrusting.	9.	Instruction in:—
2.	Veiligheidsmaatreëls wat in werkwinkel nagekom moet word.	(a)	reactions of different metals to working by machines; and
3.	Toepassing en gebruik van presisiemeetinstrumente soos binne- en buitemeetpassers, mikrometers en verniers (nonius).	(b)	bending allowances and clearances necessary for the machining of different gauges of metal.
4.	Lees van tekenings.	10.	Reading of drawings.
5.	Onderrig in gebruik, in stand hou en heelmaak van masjiengereedskap soos—	11.	Welding of metals other than mild steel.
(a)	senterdraaibanke;	12.	Making patterns.
(b)	freesmasjiene;	13.	Preparing panels and making sheet iron parts for vehicles from own patterns.
(c)	sterkarmskaafmasjiene; en	14.	Complete sheeting of bodies using all methods and machinery necessary.
(d)	enige ander masjiengereedskap wat in die ambag gebruik word.		FIFTH YEAR.
	19DE MAAND TOT VIERDE JAAR.		Revision.
6.	Werk aan alle soorte masjiengereedskap.		TRADE: AUTOMOTIVE TURNING AND MACHINING (6).
7.	In stand hou en maak van—		FIRST 18 MONTHS.
(a)	meters;	1.	Handling, correct use and care of tools and equipment.
(b)	setmate;	2.	Safety precautions to be observed in the workshop.
(c)	stempels; en	3.	Application and use of measuring instruments such as internal and external calipers, micrometers and verniers.
(d)	gereedskap.	4.	Grinding of drills, taps and tipped tools with special emphasis on cutting angles and clearances.
	VIJFDE JAAR.	5.	Elementary work on centre lathes.
	Hersiening.	6.	Elementary work on:—
	AMBAG: MOTORASETILEEN- EN ELEKTRIESE SWEISWERK (2).	(a)	drilling machines;
	EERSTE 18 MAANDE.	(b)	shaping machines;
1.	Hantering en versorging van gereedskap, winkeluitrusting, motorvoertuigonderdele en motorvoertuie terwyl herstelwerk aan die gang is.	(c)	slotting machines; and
2.	Veiligheidsmaatreëls wat in werkwinkel nagekom moet word.	(d)	milling machines.
3.	Oksiasetileen- en elektriese sweis- en snywerk van eenvoudige aard.	7.	Dismantling of machinery under repair and/or maintenance.
4.	Lees van tekenings.		19TH MONTH TO END OF FOURTH YEAR.
	19DE MAAND TOT EINDE VAN VIERDE JAAR.	8.	Cylindrical grinding to fine tolerances and desired finish of:—
5.	Oksiasetileensnywerk, verskillende metale met oksiasetileen verhit, sweis en sweissoldeer.	(a)	pins; and
6.	Elektries—Verskillende metale afbeitel, berei, sweis en afwerk en opbou.	(b)	rods.
7.	Oorhoofse sweiswerk.	9.	Internal and external screw-cutting with particular attention to multiple start threads and use of screw-cutting dial.
8.	Aluminium, koper, elektron en ander metale sweis.	10.	Work on combination lathes.
9.	Tegniek van—	11.	Setting up of work and determination of special procedures to face plate works.
(a)	voorverhitting, sweisvolgorde, naverhitting en afkoeling;	12.	Internal and external taper turning.
(b)	voorkoming van verwringing en bars; en	13.	Advanced work on:—
(c)	uitgloeiing, tempering en dopverharding.	(a)	all lathes;
10.	Waar geriewe bestaan—masjiën- en reguitsnywerk.	(b)	grinding machines;
	VIJFDE JAAR.	(c)	milling machines;
	Hersiening.	(d)	boring machines; and
	AMBAG: MOTORBAKHERSTELWERK (1).	(e)	shaping machines.
	EERSTE 18 MAANDE.	14.	Use of dividing head.
1.	Hantering, regte gebruik en versorging van gereedskap en uitrusting, insluitende—		FIFTH YEAR.
(a)	kloplese;		Revision.
(b)	hamers en klopgereedskap;		TRADE: DIESEL MECHANIC (7).
(c)	hefbome;		FIRST 18 MONTHS.
(d)	lepels;	1.	Safety precautions to be observed in the workshop.
(e)	sleutels, ponse, beitels en klemme;	2.	Care of vehicles.
(f)	veegblokke;	3.	Safe driving habits.
(g)	vyle en skuurpapier;	4.	Identification, handling, correct use and care of tools, equipment and all types of spanners, including:—
(h)	verhittingsblaaslampe en gassweispype;	(a)	the torque wrench;
(i)	elektriese bore en klinkmasjiene;	(b)	punches and drifts;
(j)	elektriese slypers, stok en snymoere;	(c)	drills, reamers, stocks and dies and taps;
(k)	„Portopower”-domkragte en hulle werkonderdele, soos verlengstawe, bo- en onder-druk-gereedskap, ooprekkers en sekondêre domkragte en hulle steunstawe;	(d)	steel rules, divider, calipers and scribes;
		(e)	hacksaws;
		(f)	feeler gauges, micrometers (inside and outside), dial gauges and cylinder gauges;
		(g)	hydraulic jacks, trestles, creepers and hoists;
		(h)	compressors;
		(i)	grinding machines; and
		(j)	locking devices.
		5.	Where facilities exist—towing and recovery of vehicles.

Simbole
toegewys
vir
doeleindes
van
vakleerling
se logboek.

Praktiese opleiding.

- (l) swaar hidrouliese domkragte en hulle bykomende onderdele vir verankering, rek, trek en vassit, insluitende verankering en gebruik van kettings; (m) meters om onderstel en mono-konstruksiebakke in lyn te stel; en (n) draagbare meters om wiele te laat spoor—waar geriewe bestaan.
2. Afhaal van beskadigde dele van bakwerk en versorging van dié dele en hulle hegstukke met die oog op latere terugplasing.
3. Eenvoudige paneelherstelwerk, aan en van die voertuig af.
4. Eenvoudige veegwerk, vyl en skuur.
5. Verhitting, sny, sweis en sweissoldeer van gewone plaatyster met asetileengasvlamsyners en verhitting met blaaslamp.
6. Sweis van-allooi.
7. Opvul van duike met sinkallooi en plastiek.
8. Waar geriewe bestaan—eenvoudige elektriese sweiswerk.
- 19DE MAAND TOT EINDE VAN VIERDE JAAR.
9. Onderrig en oefening in rek en krimp van plaatmetaal; verduideliking van uitwerking daarvan.
10. Gevorderde veegwerk, vyl, skuur en opvul met soldeer-sel of plastiek.
11. Groot herstelwerk:—
- (a) toets en heelmaak van brandstoftanks met nodige voorsorg teen ontploffings en brande;
- (b) heelmaak van verkoelertanks en klein herstelwerk aan koelpype en -vinne;
- (c) heelmaak van verkoeleroosters en vlekvrystaal, verchromde en aluminiumsierstroke;
- (d) afhaal en terugsit van bakpanele en plaatmetaaldele en aansit van nuwe panele en ander dergelike onderdele;
- (e) deur- en vensterrame haaks insit en regte openings en vry ruimtes hiervoor verseker;
- (f) deure weer hang met verstellings van skarniere; aandag aan vry ruimtes; deurslotte en klap-slotplate herstel en stel; sponnings aansit;
- (g) verbetering van bakverwringing in gesteunde en konstruksiebakke;
- (h) gedeeltes pas van onderdele soos modderskerms en deurpanele;
- (g) verbetering van bakverwringing in gesteunde en konstruksiebakke;
- (h) gedeeltes pas van onderdele soos modderskerms en deurpanele;
- (i) herstel en weer vorm van metaalprofiële, ingeboude lyswerk, deur- en vensterrame en metaalsierstroke;
- (j) gevorderde asetileensweiswerk aan staal en allooi en, waar geriewe bestaan, elektriese sweiswerk;
- (k) planering en afwerking van panele vóór verf-afwerking;
- (l) afhaal en terugsit van veringeenhede;
- (m) stof- en waterdig maak van bakke voorheen inmekaargesit en heelgemaak;
- (n) herstelwerk aan en insit van vensters, venster-meganismes, vensteropdraaiers, deurhandvatsels en deurslotte; en
- (o) waar geriewe bestaan—verhitting, herfatsoene-ring en afwerking van dik en staafmetaalstukke soos buffers, bufferankers en raamdele; onderstelle reguit maak en in lyn stel; wiele met draagbare meters laat spoor;
12. Finale inmekaarsit en inspeksie vir ware passing; volle aantal hegstukke en korrektheid van handgevoemde onderdele ten opsigte van mekaar;
13. Toets vir behoorlike verbindings en werkdele in elektriese toebehore en ligte; koplampe instel.

VYFDE JAAR.

Hersiening.

AMBAG: MOTORDRAAI- EN MASJIE-
WERKING (6).

EERSTE 18 MAANDE.

1. Hantering, regte gebruik en versorging van gereedskap en uitrusting.
2. Veiligheidsmaatreëls wat in die werkwinkel nagekom moet word.

Symbols
allocated for
purposes of
apprentice's
log book.

Practical training.

6. Lubrication and servicing of vehicles:—
- (a) uses of different grades and types of oils and greases;
- (b) methods of draining, flushing, servicing and filling engine sumps, gearboxes and rear axle housings; and
- (c) battery servicing: top-up electrolyte, clean battery case, terminal posts and cables.
7. Instruction in generator charging systems.
8. Inspection and assessment of wear:—
- (a) in cylinders;
- (b) on crankshafts;
- (c) main and big end journals;
- (d) camshaft journals;
- (e) cam followers;
- (f) valves and guides;
- (g) pistons and gudgeon pins; and
- (h) rockers and shafts.
9. Decarbonising; grinding in valves; replacing cylinder head (using torque wrench and correct tightening sequence) and adjusting valve clearances.
10. Road wheels: Removal and replacement of wheels, tyres and tubes. Rotation of wheels.
11. Removal and replacement of the following:—
- (a) clutches;
- (b) gearboxes;
- (c) propeller shafts and universal joints;
- (d) springs and hangers;
- (e) front axle assemblies;
- (f) rear axle assemblies;
- (g) shock absorbers and damper systems;
- (h) engine assemblies;
- (i) engine accessories;
- (j) steering boxes and linkages;
- (k) suspension units;
- (l) brake shoe assemblies; and
- (m) exhaust units.
12. Engine units: Dismantling and complete assembling of engines, including overhauling and fitting of the following parts:—
- (a) pistons, rings and gudgeon pins;
- (b) main and big end bearings;
- (c) valve guides and valves—recondition seats and valve faces; check valve springs for tension;
- (d) connecting rods (where facilities exist—check and align); and
- (e) flywheel ring gears.
13. Set timing:—
- (a) valve; and
- (b) ignition.
14. Cooling systems:—
- (a) check for leaks or blockages; cleaning radiators and engine blocks; fit new radiator hoses;
- (b) check thermostats;
- (c) overhaul water pumps; and
- (d) check fan belts for condition and tension.
- 19TH MONTH TO END OF FOURTH YEAR.
15. Overhaul, assess for wear, re-assemble and adjust where necessary:—
- (a) clutches;
- (b) gearboxes;
- (c) propeller shafts;
- (d) final drive assemblies;
- (e) front axle assemblies;
- (f) rear axle assemblies;
- (g) compressor units; and
- (h) suspension systems.
16. Brake systems: repair and overhaul of component parts:—
- (a) vacuum power; and
- (b) hydraulic.
17. Testing, diagnosis and rectification of faults with emphasis on adjustment and repair of units and component parts.
18. Maintenance and repair of fuel pump system.
19. Front end correction; wheel balancing; tyre faults.
20. Frame alignment.
21. Where facilities exist:—
- (a) maintenance and overhaul of fuel injector system;
- (b) testing, diagnosis and rectification of faults on power operated units and automatic transmission; and
- (c) maintenance and overhaul of alternator charging systems.

Simbole toegewys vir doeleindes van vakleerling se logboek.	Praktiese opleiding.
3.	Toepassing en gebruik van meetinstrumente soos binne- en buitemeetpassers, mikrometers en verniers (nonious);
4.	Slyp van bore, snytappe en gepunte beitels met spesiale klem op snyhoëke en vry ruimtes.
5.	Elementêre werk aan senterdraaibanke.
6.	Elementêre werk aan—
(a)	boormasjiene;
(b)	sterkarmskaafmasjiene;
(c)	gleufsnymasjiene; en
(d)	freesmasjiene.
7.	Uitmekaarhaal van masjinerie vir herstel en/of in stand hou.
	19DE MAAND TOT EINDE VAN VIERDE JAAR.
8.	Silindriese slypwerk vir fyn vry ruimtes en verlangde afwerking van—
(a)	penne; en
(b)	stange.
9.	Inwendige en uitwendige skroefsnijwerk met spesiale aandag aan meervoudige aansitskroefdrade en gebruik van skroefsnijwyser.
10.	Werk aan kombinasiedraaibanke.
11.	Opstel van werk en bepaling van spesiale prosedures om plaatwerk te vlak.
12.	Binne- en buitetafdruiwerk.
13.	Gevorderde werk aan—
(a)	alle draaibanke;
(b)	slypmasjiene;
(c)	freesmasjiene;
(d)	boormasjiene; en
(e)	sterkarmskaafmasjiene.
14.	Gebruik van verdeelkop.
	VYFDE JAAR.
	Hersiening.
	AMBAG: MOTORELEKTRISIËN (3).
	EERSTE 18 MAANDE.
1.	Hantering, regte gebruik en versorging van gereedskap en uitrusting.
2.	Veiligheidsmaatreëls wat in werkwinkel nagekom moet word en beveiliging van stoffeer- en verfwerk.
3.	Meng van elektroliet.
4.	Insit van batterye, battery- en aansitterkabels.
5.	Soldeer van kabelaanluiters, -ore en -lasse.
6.	Verwydering en terugsit van elektriese onderdele.
7.	In stand hou van batterye—
(a)	diens gee, laai, toets, verseël;
(b)	diagnose en inwendige ondersoek; en
(c)	vinnige laaiers; uitwerking van temperatuur.
8.	Gebruik van en voorsorg i.v.m. elektriese meetinstrumente.
9.	Opknap en toets van aansitmotors en -aandrywings.
10.	Vonkproppe: diens gee en toets.
11.	Gebruik van wringsleutel.
	19DE MAAND TOT EINDE VAN VIERDE JAAR.
12.	Diens gee aan, toets, en tydreëling van magneto's.
13.	Opknap, toets en polariseer van generators.
14.	Versorging en bediening van uitrusting wat in diagnose en toets van motor-elektriese onderdele gebruik word.
15.	Battery- en spoelontstekingstelsels: toets van spoel- en kondensator- en ballasweerstand.
16.	Verdeler:—
(a)	As, busse en nok vir slytasie nagaan; en
(b)	installering van busse; diens gee aan en in lyn bring van kontakpunte; nagaan van rus en punte sinchroniseer.
17.	Ontstekingstyd stel en vir enjintoestand en hoogte verstel.
18.	Gebruik van—
(a)	tydreëlligte;
(b)	tagometer; en
(c)	vakuummeter.
19.	Herbedrading van motorvoertuig en lees van bedradingdiagramme.
20.	Foute soek; nagaan vir oop kringe, kortsluitings, aarding, weerstand en spanningsval.
21.	Toets, diens gee, herstel- en verstelwerk aan—
(a)	uitskakelaars;
(b)	reëlaars;
(c)	sentrifugale reëlaars;

Symbols allocated for purposes of apprentice's log book.	Practical training.
	FIFTH YEAR.
	Revision.
	TRADE: ENGINE FITTING (8).
	FIRST 18 MONTHS.
1.	Handling and care of tools and equipment and motor vehicle engine parts.
2.	Safety precautions to be observed in the workshop.
3.	Basic stripping and assembly work on engines.
4.	Making gaskets.
5.	Identification and correct use of locking devices.
	19TH MONTH TO END OF FOURTH YEAR.
6.	Filing, drilling, tapping and scraping.
7.	Fitting of camshaft bearings and valve guides.
8.	Refacing valves and valve seats.
9.	Setting timing.
10.	Aligning connecting rods.
11.	Assembly of pistons and connecting rods.
12.	Valve timing.
13.	Engine stripping and assembling.
14.	Setting tappets.
15.	Measuring engine components.
16.	Reaming bushes.
17.	Checking draw on bearings and rectifying where necessary.
18.	Overhauling of oil and water pumps.
19.	Fitting valve seat inserts.
20.	Fitting piston rings.
21.	Straightening crankshafts and camshafts in presses.
22.	Fitting wet and dry cylinder liners.
23.	Where facilities exist—dynamometer testing.
	FIFTH YEAR.
	Revision.
	TRADE: MOTOR CYCLE AND SCOOTER MECHANIC (9).
	FIRST 18 MONTHS.
1.	Safety precautions to be observed in the workshop.
2.	Care of vehicles.
3.	Safe driving habits.
4.	Identification, handling, correct use and care of tools, equipment and all types of spanners, including:—
(a)	the torque wrench;
(b)	punches and drifts;
(c)	drills, reamers, stocks and dies and taps;
(d)	steel rules; divider, calipers and scribes;
(e)	hacksaws;
(f)	feeler gauges, micrometers (inside and outside), dial gauges and cylinder gauges;
(g)	hydraulic jacks, trestles, creepers and hoists;
(h)	compressors;
(i)	grinding machines; and
(j)	locking devices.
5.	Lubrication and servicing of vehicles:—
(a)	uses of different grades and types of oils and greases;
(b)	methods of draining, flushing, servicing and filling engine sumps, gearboxes and rear axle housings; and
(c)	battery servicing: top-up electrolyte; clean battery case, terminal posts and cables.
6.	Instruction in generator charging systems.
7.	Decarbonising; grinding in valves; replacing cylinder head (using torque wrench and correct tightening sequence) and adjusting valve clearances.
8.	Road wheels:—
(a)	removal and replacement of wheels, tyres and tubes;
(b)	rotation of wheels; and
(c)	wheel building and truing.
9.	Removal and replacement of the following:—
(a)	clutches;
(b)	gearboxes;
(c)	drive shafts and universal joints;
(d)	springs and hangers;
(e)	front axle assemblies;
(f)	rear axle assemblies;
(g)	shock absorbers;
(h)	engine assemblies;
(i)	engine accessories;

Simbole toegewys vir doeleindes van vakleerling se logboek.	Praktiese opleiding.	Symbols allocated for purposes of apprentice's log book.	Practical training.
(d) (e) (f) (g) (h) (i) (j) (k) (l) (m) (n) (o)	solenoidskakelaars; vakuumpontrols; paneelinstrumente; kringe, skakelaars, lampe en toeters; verhitterwaaiers; relés; reostate; rigtingwysers; ruitveermotors; elektriese brandstofpompe; elektriese transmissiekontroles; en alternators en reëlaars.	(j) (k) (l) (m) (n) (o)	front fork assemblies and chain and sprocket drives; steering dampers and linkages; suspension units; brake shoe assemblies; control cables; and exhaust units.
22. 23. 24. 25. 26. 27.	Instel van koplampe. Instelling. Klepspelings gee. Nagaan van koelstelsels. Waar geriewe bestaan—onderhoud en toets van koudaansittostelle. Diagnoseer van foute.	10. (a) (b) (c) (d) (e) (f) (g) (h)	19TH MONTH TO END OF THIRD YEAR. Inspection and assessment of wear:— in cylinders; on crankshaft; main and big end journals; camshaft journals; cam followers; valves and guides; pistons and gudgeon pins; and rockers and shafts.
	VYFDE JAAR. Hersiening. AMBAG: MOTORFIETS- EN BROMPONIE- WERKTUIGKUNDIGE (9). EERSTE 18 MAANDE.	11. (a) (b) (c) (d) (e)	Engine units: dismantling and complete assembling of engine including overhauling and fitting of the following parts:— pistons, rings and gudgeon pins; main and big end bearings; seals and valve faces—check valve springs for tension; connecting rods (where facilities exist—check and align); and flywheel ring gears.
1. 2. 3. 4.	Veiligheidsmaatreëls wat in werkwinkel nagekom moet word. Versorging van voertuie. Veilige bestuurgewoontes. Uitken, hanteer, regte gebruik en versorging van gereedskap, uitrusting en alle soorte sleutels, insluitende—	12. (a) (b)	Set timing:— valve; and ignition.
(a) (b) (c) (d) (e) (f) (g) (h) (i) (j)	die wringsleutel; ponse en dryfysters; bore, ruimers, stok en snymoere en snytappe; staallinale, verdeelpassers, meetpassers en kras- penne; metaalsae; lemmate, mikrometers (binne en buite), wysers- meters en silindermeters; hidrouliese domkragte, bokke, rolmatte (kruip- pers) en hystoestelle; kompressors; slypmasjiene; en sluittoestelle.	13. (a) (b) (c) (d) (e) (f)	Overhaul, assess for wear, re-assemble and adjust where necessary:— clutches; gearboxes; propellor shafts; final drive assemblies; front axle assemblies; and rear axle assemblies.
5.	Smeer van en diens gee aan voertuie:—	14. (a) (b) (c)	Testing, diagnosis and rectification of faults with emphasis on:— carburetion; frame alignment; and suspensions.
(a) (b) (c)	Gebruik van verskillende grade en soorte olie en ghries; metodes van aftap, uitspoel, diens gee aan en volmaak van enjinoliebakke, ratkaste en agter- asomhulsels; en diens gee aan batterye: elektroliet opvul, battery- kas, aansluitpenne en kables skoonmaak.	15. (a) (b) (c)	Repair and overhaul of:— electrical equipment; generator charging systems; and where facilities exist—alternator charging sys- tems.
6. 7. 8.	Onderrig in generatorlaaistelsels. Ontkool; inslyp van kleppe; terugsit van silinderkop (met gebruik van wringsleutel en regte vasdraai- volgorde) en stel van klepspelings. Padwiele:—		FOURTH YEAR. Revision.
(a) (b) (c)	Afhaal en terugsit van wiele, buite- en binnebande; rotasie van wiele; en wiele bou en laat spoor.		TRADE: MOTOR MECHANIC (10). FIRST 18 MONTHS.
9.	Afhaal en terugsit van—	1. 2. 3. 4.	Safety precautions to be observed in the workshop. Care of vehicles. Safe driving habits. Identification, handling, correct use and care of tools, equipment and all types of spanners, including:—
(a) (b) (c) (d) (e) (f) (g) (h) (i) (j) (k) (l) (m) (n) (o)	koppelaars; ratkaste; dryfasse en kruiskoppelings; vere en hangers; vooras-samestelling; agter-as-samestelling; skokbrekers; enjinsamestelling; enjintoebehore; voorvurksamestelling en ketting- en rataandrywing; stuurdemper en skakelings; veringeenhede; remskoensamestelling; kontrolekables; en uitlaateenhede.	(a) (b) (c) (d) (e) (f) (g) (h) (i) (j)	the torque wrench; punches and drifts; drills, reamers, stocks and dies and taps; steel rules, divider, calipers and scribers; hacksaws; feeler gauges, micrometers (inside and outside), dial gauges and cylinder gauges; hydraulic jacks, trestles, creepers and hoists; compressors; grinding machines; and locking devices.
	19DE MAAND TOT EINDE VAN DERDE JAAR.	5. 6. (a) (b) (c)	Where facilities exist—towing and recovery of vehicles. Lubrication and servicing of vehicles:— uses of different grades and types of oils and greases; methods of draining, flushing, servicing and filling engine sumps, gearboxes and rear axle housings; and battery servicing: top-up electrolyte; clean battery case, terminal posts and cables.
10.	Inspeksie en bepaling van slytasie—	7. (a) (b)	Instruction in:— generator charging systems; and where facilities exist—alternator charging sys- tems.
(a) (b) (c)	in silinders; aan krukas; hoof- en grootkopastappe;		

Simbole toegewys vir doeleindes van vakleerling se logboek.	Praktiese opleiding.	Symbols allocated for purposes of apprentice's log book.	Practical training.
(d) (e) (f) (g) (h)	nokas-astappe; nokvolgers; kleppe en leiers; suiers en suierpenne; en tuimelaars en asse.		
11.	Enjineenhede: uitmekaarhaal en volledige inmeekaarsit van enjin, insluitende opknapping en insit van— (a) suiers, ringe en suierpenne; (b) hoof- en grootkoplagers; (c) beddings en klepvlakke—klepvere vir spanning nagaan; (d) suierstange (waar geriewe bestaan—nagaan en in lyn bring); en (e) vliegwielerkrans.	8. (a) (b) (c) (d) (e) (f) (g) (h)	Inspection and assessment of wear:— in cylinders; on crankshaft; main and big end journals; camshaft journals; cam followers; valves and guides; pistons and gudgeon pins; and rockers and shafts.
12.	Tydreëling— (a) kleppe; en (b) ontsteking.	9.	Decarbonising; grinding in valves; replacing cylinder head (using torque wrench and correct tightening sequence) and adjusting valve clearances.
13.	Opknapping, bepaling van slytasie, weer inmeekaarsit en stel waar nodig— (a) koppelaars; (b) ratkaste; (c) dryfasse; (d) einddryf-samestelling; (e) vooras-samestelling; en (f) agteras-samestelling.	10.	Road wheels: removal and replacement of wheels, tyres and tubes; rotation of wheels.
14.	Toets, diagnoseer en herstel van foute, met nadruk op— (a) vergassing; (b) raamrigting; en (c) vering.	11.	Removal and replacement of the following:— (a) clutches; (b) gearboxes; (c) propeller shafts and universal joints; (d) springs and hangers; (e) front axle assemblies; (f) rear axle assemblies; (g) shock absorbers; (h) engine assemblies; (i) engine accessories; (j) steering boxes and linkages; (k) suspension units; (l) brake shoe assemblies; and (m) exhaust units.
15.	Herstel en opknapping van— (a) elektriese uitrusting; (b) generatorlaaistelsels; en (c) waar geriewe bestaan—alternatorlaaistelsels.	12.	Engine units—Dismantling and complete assembling of engine, including overhauling and fitting of the following parts:— (a) pistons, rings and gudgeon pins; (b) main and big end bearings; (c) valve guides and valves—recondition seats and valve faces; check valve springs for tension; (d) connecting rods (where facilities exist—check and align); and (e) flywheel ring gears.
	VIERDE JAAR.	13.	Set timing:— (a) valve; and (b) ignition.
	Hersiening.	14.	Cooling systems:— (a) check for leaks or blockages; cleaning radiators and engine blocks; (b) check thermostats; (c) overhaul water pumps; and (d) check fan belts for condition and tension.
	AMBAG: MOTORMASJIE- EN PASWERK (4).	15.	Carry out minor tune-ups.
	EERSTE 18 MAANDE.		FROM 19TH MONTH TO END OF FOURTH YEAR.
1.	Hantering, regte gebruik en versorging van gereedskap, uitrusting en motorenjinonderdele.	16.	Overhaul, assess for wear, re-assemble and adjust where necessary:— (a) clutches; (b) gearboxes; (c) propeller shafts; (d) final drive assemblies; (e) front axle assemblies; (f) rear axle assemblies; (g) steering boxes and linkages; (h) suspension units; (i) brake systems; (j) fuel pumps; (k) carburettors; and (l) ignition systems.
2.	Veiligheidsmaatreëls wat in die werkwinkel nagekom moet word.	17.	Check and adjust:— (a) toe-in; (b) castor; (c) camber; (d) king pin inclination; and (e) toe-out.
3.	Enjins uitmekaarhaal.	18.	Carry out:— (a) major tune-ups; and (b) wheel balancing.
4.	Eenvoudige werk met eendoelmasjiene.	19.	Testing, fault diagnosis and remedying of:— (a) ignition faults; (b) fuel faults; (c) engine faults; (d) clutch faults; (e) gearbox faults; (f) propeller shaft faults; (g) differential faults; (h) final drive faults; (i) brake faults; (j) steering faults; (k) suspension faults; and (l) electrical faults.
5.	Hermetalliseer van laers en suierstange.		
	19DE MAAND TOT EINDE VAN VIERDE JAAR.		
6.	Eenvoudige draaibankwerk.		
7.	Herboring van silinders en insit van hulse.		
8.	Lyn- en suierstangboorwerk.		
9.	Hervlakking van klepbeddings en kleppe; maak en insit van klepinlaatbeddings.		
10.	Insit van klepleiers en kleppe.		
11.	Inmeekaarsit van subsamestelling.		
12.	Suiers slyp.		
13.	Suierpenne insit.		
14.	Herbepaling van grootte en in lyn bring van suierstange.		
15.	Slyp van krukasse en nokasse.		
16.	Waar geriewe bestaan— (a) bediening van uitrusting om enginonderdele te balanseer; (b) barste opspoor; en (c) dinamometers toets.		
	VYFDE JAAR.		
	Hersiening.		
	AMBAG: MOTORPLAATMETAALWERK (5).		
	EERSTE 18 MAANDE.		
1.	Hantering en versorging van gereedskap en werkwinkeluitrusting.		
2.	Veiligheidsmaatreëls wat in werkwinkel nagekom moet word.		
3.	Help met en opleiding in gebruik van— (a) handmasjiene, soos saalsmee-, buig-, afknip-, rol- en draaimasjiene; en (b) waar geriewe bestaan—kragaangedrewe plaatmetaalwerkmasjiene.		

Simbole
toegewys
vir
doelindes
van
vakleerling
se logboek.

Praktiese opleiding.

4. Onderrig in stel van masjiene in (3) hierbo genoem en hul stuiters.
5. Onderrig en oefening in elektriese en gassweising van gewone sagte staal van verskillende diktes.
6. Onderrig in en help met ontwikkeling, afmerk, afwerk en vassit van plate aan voertuigbakke.
7. Onderrig in en help met panele las, sulke lasse skuur en/of opvul en/of afvee.

19DE MAAND TOT EINDE VAN VIERDE JAAR.

8. Oefening onder toesig, van alle werksaamhede hierbo genoem.
9. Onderrig in—
 - (a) reaksie van verskillende metale op bewerking deur masjiene; en
 - (b) buigtoelatings en vry ruimtes nodig vir die masjinerie van verskillende diktes metaal.
10. Lees van tekenings.
11. Sweis van metale, behalwe sagte staal.
12. Patrone maak.
13. Panele berei en plaatysterdele vir voertuie van eie patrone af maak.
14. Volledige beplating van bakke deur alle nodige metodes en masjinerie te gebruik.

VYFDE JAAR.

Hersiening.

AMBAG: MOTORWERKTUIGKUNDIGE (10).

EERSTE 18 MAANDE.

1. Veiligheidsmaatreëls wat in die werkwinkel nagekom moet word.
2. Versorging van voertuie.
3. Veilige bestuursgewoontes.
4. Uikenning, hanteer, regte gebruik en versorging van gereedskap, uitrusting en alle soorte sleutels insluitende—
 - (a) die wringsleutel;
 - (b) ponsse en dryfsters;
 - (c) bore, ruimers, stok en snymoere en snytappe;
 - (d) staallinale, verdeelpassers, meetpassers en kraspenne;
 - (e) metaalsae;
 - (f) lemmate, mikrometers (binne en buite), wysermeters en silindermeters;
 - (g) hidrouliese domkragte, bokke, rolmatte (kruipers) en hystoestelle;
 - (h) kompressors;
 - (i) slypmasjiene; en
 - (j) sluittoestelle.
5. Waar geriewe bestaan—insleep, gewoon en met takelwa.
6. Smeer van en diens gee aan voertuie—
 - (a) gebruik van verskillende grade en soorte olie en ghries;
 - (b) metodes van aftap, uitspoel, diens gee aan en volmaak van enjinoliebakke, ratkaste en agterasomhulsels; en
 - (c) diens gee aan batterye: elektroliet opvul, batterykas, aansluitpenne en kables skoonmaak.
7. Onderrig in—
 - (a) generatorlaaistelsels; en
 - (b) waar geriewe bestaan—alternatorlaaistelsels.
8. Inspeksie en bepaling van slytasie—
 - (a) in silinders;
 - (b) aan krukas;
 - (c) hoof- en grootkopastappe;
 - (d) nokasastappe;
 - (e) nokvolgers;
 - (f) kleppe en leiers;
 - (g) suiers en suierpenne; en
 - (h) tuimelaars en asse.
9. Ontkool; inslyp van kleppe; terugsit van silinderkop (met gebruik van wringsleutel en regte vasdraai-volgorde) en stel van klepspeling.
10. Padwiele: afhaal en terugsit van wiele, buite- en binnebande; rotasie van wiele.
11. Afhaal en terugsit van—
 - (a) koppelaars;
 - (b) ratkaste;
 - (c) dryfasse en kruiskoppelings;
 - (d) vere en hangers;
 - (e) vooras-samestelling;
 - (f) agteras-samestelling;

Symbols
allocated for
purposes of
apprentice's
log book.

Practical training.

20. Electrical equipment:—
 - (a) battery: testing with hydrometer and high rate discharge tester; battery charging;
 - (b) generator: replace brushes, bearings and bushes;
 - (c) clean commutator; and
 - (d) starter motor: brushes, bushes, bendix or clutch drive; clean commutator.
21. Correct use of:—
 - (a) vacuum gauge;
 - (b) compression tester;
 - (c) ammeter and voltmeter;
 - (d) tachometer and dwell meter (where facilities exist);
 - (e) fuel pump pressure gauge;
 - (f) timing lights;
 - (g) exhaust gas analysers (where facilities exist);
 - (h) condenser and coil testers (where facilities exist); and
 - (i) spark plug cleaners and testers.

FIFTH YEAR.

Revision.

TRADE: PANELBEATING INCLUDING
SPRAYPAINTING (11).

FIRST 18 MONTHS.

1. Handling, correct use and care of tools and equipment, including:—
 - (a) dolleys;
 - (b) hammers, and beating tools;
 - (c) levers;
 - (d) spoons;
 - (e) spanners, punches, chisels and clamps;
 - (f) wiping blocks;
 - (g) files and sandpaper;
 - (h) heating blow-lamps and gas torches;
 - (i) electric drills and riveting machines;
 - (j) electric grinders, stocks and dies;
 - (k) "Portopower" jacks and their component operating parts, such as extension bars, top and bottom pushing tools, spreaders and secondary jacks and their support bars;
 - (l) heavy hydraulic jacks and their ancillary parts for anchoring, stretching, pulling and setting, including anchoring and uses of chains; and
 - (m) portable gauges for aligning wheels—where facilities exist.
2. Stripping of damaged parts of bodywork and care of such parts and their fastenings with regard to their eventual replacement.
3. Simple panelbeating repairs, on and off the vehicle.
4. Simple wiping, filing and grinding.
5. Heating, cutting, welding and brazing of common sheet iron by acetylene gas torches and heating by blow-lamp.
6. Welding of alloys.
7. Filling of dents with zinc alloys and plastics.
8. Where facilities exist—simple electric welding.

19TH MONTH TO END OF FOURTH YEAR.

9. Instruction and practice in stretching and shrinking of sheet metal; explanations of its effects.
10. Advanced wiping, filing, grinding and filling with solder or plastics.
11. Major repairs:—
 - (a) testing and repair of fuel tanks with necessary precautions to be taken regarding explosions and fires;
 - (b) repairing of radiator tanks and minor repairs to cooling tubes and fins;
 - (c) repairing of radiator grills and stainless steel, chrome plated and aluminium beadings;
 - (d) removing and replacing of body panels and sheet metal parts and installing new panels and other such parts;
 - (e) trueing of door and window framing and in maintaining or recreating correct apertures and clearances for these;
 - (f) rehangng of doors with adjustments to hinges; attention to clearances; refitting and setting of door locks and slam plates; fitting of channels;
 - (g) correction of body distortion in supported and mono-constructed bodies;

Simbole toegewys vir doeleindes van vakleerling se logboek.	Praktiese opleiding.	Symbols allocated for purposes of apprentice's log book.	Practical training.
(g)	skokbrekers;	(h)	matching part shapes such as fenders and door panels;
(h)	enjinsamestelle;	(i)	repairs and reforming of metal profiles, built-in mouldings, door and window framing and metal beads;
(j)	enjintoebehore;	(j)	complicated acetylene welding of steel and alloys and, where facilities exist, electric welding;
(k)	stuurkaste en skakelings;	(k)	planishing and finishing of panels prior to paint finish;
(l)	veringenhede;	(l)	removal and replacement of suspension parts;
(m)	remskoensamestelle; en	(m)	instruction in dust and waterproofing of previously assembled and repaired bodies;
12.	uitlaateenhede.	(n)	repair and installation of windows, window mechanisms, window winders, door handles and door locks; and
	Enjinenehede—uittmekaarhaal en volledig inmeekaarsit van enjin, insluitende opknapping en insit van—	(o)	where facilities exist—wheel aligning with portable gauges; heating, reshaping and finishing of heavy gauge and bar metals such as bumpers, bumper stays and chassis members.
(a)	suiers, ringe en suierpenne;	12.	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.
(b)	hoof- en grootkoplaers;	13.	Testing for proper connections and working components in electrical fittings and lightings; focusing of headlamps.
(c)	klepleiers en kleppe—vernuwing van beddings en klepvlakke; klepvere vir spanning nagaan;	14.	Elementary spraypainting.
(d)	suierstange (waar geriewe bestaan—nagaan en in lyn bring); en		FIFTH YEAR.
(c)	vliegwickranse.		Revision.
13.	Tydreëling—		TRADE: PANELBEATING INCLUDING TRIMMING (12).
(a)	kleppe; en		FIRST 18 MONTHS.
(b)	ontstekings.	1.	Handling, correct use and care of tools and equipment, including:—
14.	Koelstelsels—	(a)	dolleys;
(a)	nagaan vir lekke en/of verstoppings; verkoelers en enjinblokke skoonmaak;	(b)	hammers, and beating tools;
(b)	termostate nagaan;	(c)	levers;
(c)	waterpompe opknop; en	(d)	spoons;
(d)	waaiërbande vir toestand en spanning nagaan.	(e)	spanners, punches, chisels and clamps;
15.	Kleiner instellings uitvoer.	(f)	wiping blocks;
	VAN 19DE MAAND TOT EINDE VAN VIERDE JAAR.	(g)	files and sandpaper;
16.	Opknapping, bepaling van slytasie, weer inmeekaarsit en stel waar nodig—	(h)	heating blow-lamps and gas torches;
(a)	koppelaars;	(i)	electric drills and rivetting machines;
(b)	ratkaste;	(j)	electric grinders, stocks and dies;
(c)	dryfasse;	(k)	"Portopower" jacks and their component operating parts, such as extension bars, top and bottom pushing tools, spreaders and secondary jacks and their support bars;
(d)	einddryf-samestelle;		heavy hydraulic jacks and their ancillary parts for anchoring, stretching, pulling and setting, including anchoring and uses of chains; and
(e)	vooras-samestelle;		portable gauges for aligning wheels—where facilities exist.
(f)	agteras-samestelle;	2.	Stripping of damaged parts of bodywork and care of such parts and their fastenings with regard to their eventual replacement.
(g)	stuurkaste en skakelings;	3.	Simple panelbeating repairs, on and off the vehicle.
(h)	hangeenhede;	4.	Simple wiping, filing and grinding.
(i)	remstelsels;	5.	Heating, cutting, welding and brazing of common sheet iron by acetylene gas torches and heating by blow-lamp.
(j)	brandstofpompe;	6.	Welding of alloys.
(k)	vergassers; en	7.	Filling of dents with zinc alloys and plastics.
(l)	ontstekingsstelsels.	8.	Where facilities exist—simple electric welding.
17.	Nagaan en stel van—		19TH MONTH TO END OF FOURTH YEAR.
(a)	toesporing;	9.	Instruction and practice in stretching and shrinking of sheet metal, explanations of its effects.
(b)	nasporing;	10.	Advanced wiping, filing, grinding and filling with solder or plastics.
(c)	wielvlug;	11.	Major repairs:—
(d)	krinkspilhellings; en	(a)	testing and repair of fuel tanks with necessary precautions to be taken regarding explosions and fires;
(e)	uitsporing.	(b)	repairing of radiator tanks and minor repairs to cooling tubes and fins;
18.	Uitvoer van—	(c)	repairing of radiator grills and stainless steel, chrome plated and aluminium beadings;
(a)	grootinstellings; en	(d)	removing and replacing of body panels and sheet metal parts and installing new panels and other such parts;
(b)	wielbalansering.		
19.	Toets, foutdiagnosering en verbetering van—		
(a)	ontstekingsfoute;		
(b)	brandstoffoute;		
(c)	enjinfoute;		
(d)	koppelaar-foute;		
(e)	rattasfoute;		
(f)	dryfasfoute;		
(g)	ewenaar-foute;		
(h)	einddryffoute;		
(i)	remfoute;		
(j)	stuurfoute;		
(k)	veringfoute; en		
(l)	elektriese foute.		
20.	Elektriese uitrusting—		
(a)	battery; toets met hidrometer en hoëtempo-ontlaaitoets; battery laai;		
(b)	generator; borsels, laers en busse terugsit; kommutator skoonmaak; en		
(c)	aansitmotor; borsels, busse, bendix- of koppelaar-andrwyer terugsit; kommutator skoonmaak.		
21.	Regte gebruik van—		
(a)	vakkuummeter;		
(b)	druktoets; en		
(c)	ammeter en voltmeter;		
(d)	tagometer en rusmeter (waar geriewe bestaan);		
(e)	brandstofpompdrukmeter;		
(f)	tydreëlligte;		
(g)	uitlaatgasontleders (waar geriewe bestaan);		
(h)	kondensator- en spoeltoetsers (waar geriewe bestaan); en		
(i)	vonkprop-skoonmakers en -toetsers.		
	VYFDE JAAR.		
	Hersiening.		

Simbole toegewys vir doeleindes van vakleerling se logboek.	Praktiese opleiding.	Symbols allocated for purposes of apprentice's log book.	Practical training.
	AMBAG: PANEELWERK MET INBEGRIIP VAN VERFSPUITWERK (11).		
	EERSTE 18 MAANDE.		
1.	Hantering, regte gebruik en versorging van gereedskap en uitrusting, insluitende—	(e)	trueing of door and window framing and in main- taining or recreating correct apertures and clearances for these;
(a)	klopse;	(f)	rehanging of doors with adjustments to hinges; attention to clearances; refitting and setting of door locks and slam plates; fitting of channels;
(b)	hamers en kloggereedskap;	(g)	correction of body distortion in supported and mono-construction bodies;
(c)	hefbome;	(h)	matching part shapes such as fenders and door panels;
(d)	lepel;	(i)	repairs and reforming of metal profiles, built-in mouldings, door and window framing and metal beads;
(e)	sleutels, ponse, beitels en klemme;	(j)	complicated acetylene welding of steel and alloys and, where facilities exist, electric welding;
(f)	veegblokke;	(k)	planishing and finishing of panels prior to paint finish;
(g)	vyl en skuurpapier;	(l)	removal and replacement of suspension parts;
(h)	verhittingsblaaslampe en gassweispype;	(m)	instruction in dust and waterproofing of pre- viously assembled and repaired bodies;
(i)	elektriese bore en klinkmasjiene;	(n)	repair and installation of windows, window mechanisms, window winders, door handles and door locks; and
(j)	elektriese slypers, stok en snymoere;	(o)	where facilities exist—wheel aligning with portable gauges; heating, reshaping and finishing of heavy gauge and bar metals such as bumpers, bumper stays and chassis members.
(k)	„Portopower“-domkragte en hulle werkonder- dele, soos verlengstawe, bo- en onder-druk- gereedskap, ooprekkers en sekondêre dom- kragte en hulle steunstawe;	12.	Final assembly and inspection for true fit, full comple- ment of fastening components and correctness of shapes of hand-moulded parts in relation to one another.
(l)	swaar hidrouliese domkragte en hulle bykomende onderdele vir verankering, rek, trek en vassit, insluitende verankering en gebruik van ket- tings; en	13.	Testing for proper connections and working compo- nents in electrical fittings and lightings; focusing of headlamps.
(m)	draagbare meters om wiele te laat spoor—waar geriewe bestaan.	14.	Elementary trimming.
2.	Afhaal van beskadigde dele van bakwerk en versorg- ing van dié dele en hulle hegstukke met die oog op latere terugplasing.		FIFTH YEAR.
3.	Eenvoudige paneelherstelwerk, aan en van die voertuig af.		Revision.
4.	Eenvoudige veegwerk, vyl en skuur.		
5.	Verhitting, sny, sweis en sweissoldeer van gewone plaatyster met asetileengasvlamsnyers en verhitting met blaaslamp.		
6.	Sweis van allooie.		
7.	Opvul van duike met sinkalooie en plastiek.		
8.	Waar geriewe bestaan—eenvoudige elektriese sweis- werk.		
	19DE MAAND TOT ENDE VAN VIERDE JAAR.		
9.	Onderrig en oefening in rek en krimp van plaatmetaal; verduideliking van uitwerking daarvan.		TRADE: SPRAYPAINTING (13).
10.	Gevorderde veegwerk, vyl, skuur en opvul met soldeersel of plastiek.		FIRST TO THIRD YEAR.
11.	Groot herstelwerk:—	1.	Safety precautions to be observed in regard to inflam- mable materials.
(a)	Toets en heelmaak van brandstoftens met nodige voorsorg teen ontploffings en brande;	2.	Handling, correct use and care of tools, equipment and vehicles.
(b)	heelmaak van verkoelertens en klein herstelwerk aan koelpype en vinne;	3.	Removing of paint; rubbing down of surfaces; cleaning off of impurities.
(c)	heelmaak van verkoeleroosters en vlekvrue staal, verchroomde- en aluminiumsierstroke;	4.	Masking out and covering of parts not to be painted.
(d)	afhaal en terugsit van bakpanele en plaatmetaal- dele en aansit van nuwe panele en ander dergelike onderdele;	5.	Preparation of surfaces including application of stopping, primers and surfacers.
(e)	deur- en vensterrame haaks insit en regte openings en vry ruimtes hiervoor verseker;	6.	Mixing of paints and colour matching.
(f)	deure weer hang met verstellings van skarniere; aandag aan vry ruimtes; deurslotte en klap- slotplate herstel en stel; sponnings aansit;	7.	Applying of paints by:—
(g)	verbetering van bakverwringing in gesteunde en monokonstruksiebakke;	(a)	gun; and
(h)	gedeeltes pas van onderdele soos modderskerms en deurpanele;	(b)	brush—where facilities exist.
(i)	herstel en weer vorm van metaalprofile, inge- boude lyswerk, deur- en vensterrame en metaal- sierstroke;	8.	Recognition of and uses of different types of paints such as lacquers, enamels and acrylics and their reactions on one another.
(j)	ingewikkelde asetileensweiswerk aan staal en allooie en, waar geriewe bestaan, elektriese sweiswerk;	9.	Use of different solvents and driers.
(k)	planering en afwerking van panele vóór verf- werking;		FOURTH YEAR.
(l)	afhaal en terugsit van veringeenhede;		Revision.
(m)	stof- en waterdig maak van bakke voorheen inmekaarsit en heelgemaak;		
(n)	herstelwerk aan en insit van vensters, venster- meganismes, vensteropdraaiers, deurhandvat- sels en deurslotte; en		
(o)	waar geriewe bestaan—wiele met draagbare meters laat spoor; verhitting, herfatsoenering en afwerking van dik en staafmetaalstukke soos buffers, bufferankers en raamdele.		
12.	Finale inmekaarsit en inspeksie vir ware passing, volle aantal hegstukke en korrektheid van hand- gevormde onderdele ten opsigte van mekaar.	1.	Handling, correct use and care of tools and equipment
		2.	Safety precautions to be observed in the workshop.
		3.	Application and use of precision measuring instru- ments such as internal and external calipers, micrometers and verniers.
		4.	Reading of drawings.
		5.	Instructions in the use, maintenance and repair of machine tools such as:—
		(a)	centre lathes;
		(b)	milling machines;
		(c)	shapers; and
		(d)	any other machine tools used in the trade.

Simbole toegewys vir doeleindes van vakleerling se logboek.	Praktiese opleiding.	Symbols allocated for purposes of apprentice's log book.	Practical training.
13.	Toets vir behoorlike verbindings en werkdele in elektriese toebehore en ligte; koplampe instel.		19TH MONTH TO END OF FOURTH YEAR.
14.	Elementêre verfspuitwerk.	6.	Work on all types of machine tools.
	VYFDE JAAR.	7.	Maintenance and manufacture of:—
	Hersiening.	(a)	gauges;
		(b)	jigs;
		(c)	dies; and
		(d)	tools.
	AMBAG: PANEELWERK, MET INBEGRIJ VAN BEKLEDING (12).		FIFTH YEAR.
	EERSTE 18 MAANDE.		Revision.
1.	Hantering, regte gebruik en versorging van gereedskap en uitrusting, insluitende—		TRADE: TRACTOR MECHANIC (15).
(a)	kloplese;		FIRST 18 MONTHS.
(b)	hamers en kloggereedskap;	1.	Safety precautions to be observed in the workshop.
(c)	hefbome;	2.	Care of vehicles.
(d)	lepel;	3.	Safe driving habits.
(e)	sleutels, ponse, beitels en klemme;	4.	Identification, handling, correct use and care of tools, equipment and all types of spanners, including:—
(f)	veegblokke;	(a)	the torque wrench;
(g)	vyle en skuurpapier;	(b)	punches and drifts;
(h)	verhittingsblaaslampe en gassweispype;	(c)	drills, reamers, stocks and dies and taps;
(i)	elektriese bore en klinkmasjiene;	(d)	steel rules, divider, calipers, scribes and hacksaws;
(j)	elektriese slypers, stok en snymoere;	(e)	spark plug cleaners and testers;
(k)	„Portopower”-domkragte en hulle werkonderdele, soos verlengstawe, bo- en onder-drukgereedskap, ooprekkers, sekondêre domkragte en hulle steunstawe;	(f)	feeler gauges, micrometers (inside and outside), dial gauge and cylinder gauges;
(l)	swaar hidrouliese domkragte en hulle bykomende onderdele vir verankering, rek, trek en vassit, insluitende verankering en gebruik van kettings; en	(g)	hydraulic jacks, trestles, creepers and hoists;
(m)	draagbare meters om wiele te laat spoor—waar geriewe bestaan.	(h)	compressors;
2.	Afhaal van beskadigde dele van bakwerk en versorging van dié dele en hulle hegstukke met die oog op latere terugplasing.	(i)	grinding machines; and
3.	Eenvoudige paneelherstelwerk, aan en van die voertuig af.	(j)	locking devices.
4.	Eenvoudige veegwerk, vyl en skuur.	5.	Where facilities exist—towing and recovery of vehicles.
5.	Verhitting, sny, sweis en sweissoldeer van gewone plaatyster met asetileengasvlamsnyers en verhitting met blaaslamp.	6.	Lubrication and servicing of vehicles:—
6.	Sweis van allooie.	(a)	uses of different grades and types of oils and greases;
7.	Opvul van duikie met sinkalooie en plastiek.	(b)	methods of draining, flushing, servicing and filling engine sumps, gearboxes and rear axle housings; and
8.	Waar geriewe bestaan—eenvoudige elektriese sweiswerk.	(c)	battery servicing: top-up electrolyte; clean battery case, terminal posts and cables.
	19DE MAAND TOT EINDE VAN VIERDE JAAR.	7.	Inspection and assessment of wear:—
9.	Onderrig en oefening in rek en krimp van plaatmetaal; verduideliking van uitwerking daarvan.	(a)	in cylinders;
10.	Gevorderde veegwerk, vyl, skuur en opvul met soldeersel of plastiek.	(b)	on crankshaft;
11.	Groot herstelwerk:—	(c)	main and big end journals;
(a)	Toets en heelmaak van brandstoftenks met nodige voorsorg teen ontploffings en brande;	(d)	camshaft journals;
(b)	heelmaak van verkoelertenks en klein herstelwerk aan koelpype en -vinne;	(e)	cam followers;
(c)	heelmaak van verkoeleroosters en vlekvrje staal, verchromde- en aluminiumsierstroke;	(f)	valves and guides;
(d)	afhaal en terugsit van bakpanele en plaatmetaaldele en aansit van nuwe panele en ander dergelike onderdele;	(g)	pistons and gudgeon pins; and
(e)	deur- en vensterrame haaks insit en regte openings en vry ruimtes hiervoor verseker;	(h)	rockers and shafts.
(f)	deure weer hang met verstellings van skarniere; aandag aan vry ruimtes; deurslotte en klap-slotplate herstel en stel; sponnings aansit;	8.	Decarbonising; grinding in valves; replacing cylinder head (using torque wrench and correct tightening sequence) and adjusting valve clearances.
(g)	verbetering van bakverwringing in gesteunde en mono-konstruksiebakke;	9.	Road wheels: removal and replacement of wheels, tyres and tubes; rotation of wheels; servicing and maintenance of tyres and tubes; filling of water ballast in tyres.
(h)	gedeeltes pas van onderdele soos modderskerms en deurpanele;	10.	Removal and replacement of the following:—
(i)	herstel en weer vorm van metaalprofile, ingeboude lyswerk, deur- en vensterrame en metaalsierstroke;	(a)	clutches;
(j)	ingewikkelde asetileensweiswerk aan staal en allooie en, waar geriewe bestaan, elektriese sweiswerk;	(b)	gearboxes;
(k)	planering en afwerking van panele vóór verfafwerking;	(c)	propellor shafts and universal joints;
(l)	afhaal en terugsit van veringeenhede;	(d)	springs and hangers;
(m)	stof- en waterdig maak van bakke voorheen inmekaargesit en heelgemaak;	(e)	front axle assemblies;
(n)	herstelwerk aan en insit van vensters, venstermeganismes, vensteropdraaiers, deurhandvatsels en deurslotte; en	(f)	rear axle assemblies;
		(g)	shock absorbers;
		(h)	engine assemblies;
		(i)	engine accessories;
		(j)	hydraulic units and power take-off systems;
		(k)	endless track systems;
		(l)	steering boxes and linkages;
		(m)	suspension units;
		(n)	brake shoe assemblies; and
		(o)	exhaust units.
		11.	Engine units: Dismantling and complete assembling of engines, including overhauling and fitting of the following parts:—
		(a)	pistons, rings and gudgeon pins;
		(b)	main and big end bearings;
		(c)	valve guides and valves—recondition seats and valve faces; check valve springs for tension;
		(d)	connecting rods (where facilities exist—check and align); and
		(e)	flywheel ring gears.

Simbole toegewys vir doeleindes van vakleerling se logboek.	Praktiese opleiding.	Symbols allocated for purposes of apprentice's log book.	Practical training.
(o)	waar geriewe bestaan—wiele met draagbare meters laat spoor; verhitting, herfatsoenering en afwerking van dik en staafmetaalstukke soos buffers, bufferankers en raamdele.	12. (a) valve; and (b) ignition.	Set timing:—
12.	Finale inmeekaarsit en inspeksie vir ware passing, volle aantal hegstukke en korrektheid van handgevoormde onderdele ten opsigte van mekaar.	13. (a) check for leaks or blockages; (b) cleaning radiators and engine blocks; fit new radiator hoses; (c) check thermostats; (d) overhaul water pumps; and (e) check fan belts for condition and tension.	Cooling systems:—
13.	Toets vir behoorlike verbindings en werkdele in elektriese toebehore en ligte; koplampe instel.		
14.	Elementêre bekleding.		
	VYFDE JAAR.		19TH MONTH TO END OF FOURTH YEAR.
	Hersiening.		
	AMBAG: TREKKERWERKTUIGKUNDIGE (15).		
	EERSTE 18 MAANDE.		
1.	Veiligheidsmaatreëls wat in werkwinkel nagekom moet word.	14. (a) clutches; (b) gearboxes; (c) propellor shafts; (d) final drive assemblies; (e) front axle assemblies; (f) rear axle assemblies; (g) hydraulic units and power take-off systems; (h) endless track systems; (i) steering boxes and linkages; (j) suspension units; (k) brake systems; (l) fuel pumps; (m) carburetors; and (n) ignition systems.	Overhaul, assess for wear, re-assemble and adjust where necessary:—
2.	Versorging van voertuie.		
3.	Veilige bestuurgewoontes.		
4.	Uitkenning, hantering, regte gebruik en versorging van gereedskap, uitrusting en alle soorte sleutels, insluitende—	15. Where facilities exist—testing, repair and maintenance of fuel injection equipment.	
(a)	die wringsleutel;	16. Carry out tune-ups.	
(b)	ponse en dryfsters;	17. Front end correction.	
(c)	bore, ruimers, stok en snymoere en snytappe;	18. Frame alignment.	
(d)	staalliniale, verdeelpassers, meetpassers, kraspenne en metaalsae;	19. Testing, fault diagnosing and remedying of:—	
(e)	vonkproppskoonmakers en -toetsers;	(a) ignition faults; (b) fuel faults; (c) engine faults; (d) clutch faults; (e) gearbox faults; (f) propellor shaft faults; (g) differential faults; (h) final drive faults; (i) brake faults; (j) steering faults; (k) suspension faults; (l) electrical faults; and (m) hydraulic systems.	
(f)	lemmate, mikrometers (binne en buite), wysermeters en silindermeters;	20. Electrical equipment:—	
(g)	hidrouliese domkragte, bokke, rolmatte (kruipers) en hystoestelle;	(a) battery: testing with hydrometer and high rate discharge tester; battery charging; (b) generator: replace brushes, bearings and bushes; clean commutator; and (c) starter motor: replace brushes, bushes, bendix or clutch drive; clean commutator.	
(h)	kompressors;	21. Correct use of:—	
(i)	slypmasjiene; en	(a) vacuum gauge; (b) compression tester; (c) ammeter and voltmeter; (d) tachometer and dwell meter; (e) fuel pump pressure gauge; (f) timing lights; and (g) condenser and coil testers.	
(j)	sluittoestelle;		
5.	Waar geriewe bestaan—insleep van voertuie, gewoon en met takelwa.		
6.	Smeer en diens gee aan voertuie:—		
(a)	gebruik van verskillende grade en soorte olie en ghries;		
(b)	metodes van aftap, uitspoel, diens gee aan en volmaak van enjinoliebakke, ratkaste en agterasomhulsels; en		
(c)	diens gee aan batterye: elektroliet opvul; batterykas, aansluitpenne en kables skoonmaak.		
7.	Inspeksie en bepaling van slytasie:—		
(a)	in silinders;		
(b)	aan krukas;		
(c)	hoof- en grootkopastappe;		
(d)	nokasastappe;		
(e)	nokvolgers;		
(f)	kleppe en leiers;		
(g)	suiers en suierpenne; en		
(h)	tuimelaars en asse.		
8.	Ontkool, inslyp van kleppe; terugsit van silinderkop (met gebruik van wringsleutel en regte vasdraai-volgorde) en stel van klepspelings.		
9.	Padwiele: afhaal en terugsit van wiele, buite- en binnebande; rotasie van wiele; diens gee aan en in stand hou van buite- en binnebande; buitebande met waterballas volmaak.		
10.	Afhaal en terugsit van:—		
(a)	koppelaars;		
(b)	ratkaste;		
(c)	dryfasse en kruiskoppelings;		
(d)	vere en hangers;		
(e)	vooras-samestelling;		
(f)	agteras-samestelling;		
(g)	skokbrekers;		
(h)	enjinsamestelling;		
(i)	enjintoebehore;		
(j)	hidrouliese eenhede en kragtafstelsels;		
(k)	rusperbandstelsels;		
(l)	stuurkaste en skakelings;		
(m)	veringeenhede;		
(n)	remskoensamestelling; en		
(o)	uitlaateenhede.		
11.	Enjineenhede: uittrekselafhaal en volledige inmeekaarsit van enjins, insluitende opknapping en insit van:—		
(a)	suiers, ringe en suierpenne;		
(b)	hoof- en grootkoplaers;		
(c)	kleplaers en kleppe: vernuwing van beddings en klepvlakke; klepvere vir spanning nagaan;		
		1. Handling, correct use and care of tools and equipment.	
		2. Safety precautions to be observed in the workshop.	
		3. Stripping of hoods, seats, dome linings, door and body trimming panels.	
		4. Padding of seats and fitting of seat springs.	
		5. Cleaning, oiling and setting of sewing machines.	
			FIFTH YEAR.
			Revision.
			TRADE: TRIMMING (16).
			FIRST 18 MONTHS.

Simbole toegewys vir doeleindes van vakleerling se logboek.	Praktiese opleiding.	Symbols allocated for purposes of apprentice's log book.	Practical training.
			19TH MONTH TO THIRD YEAR.
(d)	suierstange (waar geriewe bestaan—nagaan en in lyn bring); en		
(e)	vliegwieltkrans.	6.	Marking and cutting out from work patterns, samples or drawings.
12.	Tydreëlings:—	7.	Use of correct materials.
(a)	kleppe; en	8.	Manufacture and repair of:—
(b)	ontsteking.	(a)	seats;
13.	Koelstelsels:—	(b)	squabs;
(a)	nagaan vir lekke of verstoppings;	(c)	door trimmings; and
(b)	verkoelers en enjinblokke skoonmaak; nuwe verkoelerslange aansit;	(d)	hood and head linings.
(c)	termostate nagaan;	9.	Repair of window winders and door locks.
(d)	waterpompe opknop; en	10.	Dust and water proofing.
(e)	waaierbande vir toestand en spanning nagaan.	11.	Removal and fitting of all glass.
	19DE MAAND TOT EINDE VAN VIERDE JAAR.		FOURTH YEAR.
14.	Opknapping, bepaling van slytasie, weer innemkaarsit en stel waar nodig:—		Revision.
(a)	koppelaars;		TRADE: TRIMMING INCLUDING SPRAY-PAINTING (17).
(b)	ratkaste;		FIRST 18 MONTHS.
(c)	dryfasse;		
(d)	einddryf-samestelle;	1.	Handling, correct use and care of tools and equipment.
(e)	vooras-samestelle;	2.	Safety precautions to be observed in the workshop.
(f)	agteras-samestelle;	3.	Stripping of hoods, seats, dome linings, door and body trimming panels.
(g)	hidrouliese eenhede en kragafkastelsels;	4.	Padding of seats and fitting of seat springs.
(h)	rusperbandstelsels;	5.	Cleaning, oiling and setting of sewing machines.
(i)	stuurkaste en skakelings;	6.	Removal and fitting of all glass.
(j)	veringeenhede;		19TH MONTH TO END OF FOURTH YEAR.
(k)	remstelsels;	7.	Marking and cutting out from working patterns, samples, or drawings.
(l)	brandstofpompe;	8.	Use of correct materials.
(m)	vergassers; en	9.	Manufacture and repair of:—
(n)	ontstekingstelsels.	(a)	seats;
15.	Waar geriewe bestaan—toets, herstel en in stand hou van brandstofinspuituitrusting.	(b)	squabs;
16.	Uitvoer van instellings.	(c)	door trimmings; and
17.	Voorstelverbetering.	(d)	hoods and head linings.
18.	Raamrigting.	10.	Repair of:—
19.	Toets, foute diagnoseer en herstel van:—	(a)	window winders; and
(a)	ontstekingsfoute;	(b)	door locks.
(b)	brandstof-foute;	11.	Dust and water proofing.
(c)	enjin-foute;	12.	Spraypainting.
(d)	koppelaar-foute;		FIFTH YEAR.
(e)	ratkas-foute;		Revision.
(f)	dryfas-foute;		TRADE: VEHICLE BODY BUILDING (18).
(g)	ewenaars-foute;		FIRST 18 MONTHS.
(h)	einddryf-foute;	1.	Handling, correct use and care of tools and equipment.
(i)	rem-foute;	2.	Safety precautions to be observed in the workshop.
(j)	stuur-foute;	3.	Knowledge of materials used for the manufacture and repair of steel and composite motor vehicle bodies.
(k)	vering-foute;	4.	Elementary repairs to bodies.
(l)	elekttriese foute; en	5.	Dressing of timber and wooden joints.
(m)	hidrouliese foute.	6.	Where facilities exist—knowledge and use of:—
20.	Elektriese uitrusting:—	(a)	metal working machinery, power and hand operated; and
(a)	battery: toets met hidrometer en hoëtempo-ontlaaitoets; battery laai;	(b)	reactions of metal to machine working.
(b)	generator: terugsit van borsels, laers en busse; kommutator skoonmaak; en		19TH MONTH TO END OF FOURTH YEAR.
(c)	aansitmotor: terugsit van borsels, busse, bendix- of koppelaaraandrywer; kommutator skoonmaak.	7.	Dressing of metal.
21.	Regte gebruik van:—	8.	Rivetting and making joints.
(a)	vakuumtoets; en	9.	Assembly of bodies.
(b)	druktoets; en	10.	Reading drawings.
(c)	ammeter en voltmeter;	11.	Marking out for repair and manufacture.
(d)	tagometer en rusmeter;		
(e)	brandstofpompdrukmeter;		
(f)	tydreëllig; en		
(g)	kondensator- en spoeltoetsers.		
	VEDEDE JAAR.		
	Hersiening.		
	AMBAG: VERFSPUITWERK (13).		
	EERSTE TOT DERDE JAAR.		
1.	Veiligheidsmaatreëls wat t.o.v. vlambare materiaal nagekom moet word.		
2.	Hantering, regte gebruik en versorging van gereedskap uitrusting en voertuie.		
3.	Verf afhaal; oppervlakte afvryf; onsuiverhede verwyder.		
4.	Maskering en bedekking van dele wat nie gevef moet word nie.		
5.	Bereiding van oppervlakke, insluitende aanwending van stopverf, grond- en deklac.		

Simbole toegewys vir doeleindes van vakleerling se logboek.	Praktiese opleiding.	Symbols allocated for purposes of apprentice's log book.	Practical training.
6. 7. (a) (b) 8. 9.	Meng van verf en kleure pas. Verf aansit met:— verfspuit; en kwas—waar geriewe bestaan. Uitkenning en gebruik van verskillende soorte verf soos lak-, enemmel- en akrielverf en hul uitwerking op mekaar. Gebruik van verskillende oplosmiddels en droërs.	12. 13. 14. 15. 16.	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.
Hersiening.	VIERDE JAAR.	Revision.	FIFTH YEAR.

Kragtens die bepalings van subartikel (4) van artikel sesien van die Wet op Vakleerlinge, 1944, soos gewysig, word alle belanghebbende persone wat beswaar teen bogenoemde voorneme het, versoek om die besware skriftelik in te dien by die Sekretaris, Nasionale Vakleerlingskapkomitee vir die Motornywerheid, Privaatsak 117, Pretoria.

A. E. TROLLIP,
Minister van Arbeid.

In terms of the provisions of sub-section (4) of section sixteen of the Apprenticeship Act, 1944, as amended, all interested persons who have any objections to the above proposals are called upon to lodge the objections, in writing, with the Secretary, National Apprenticeship Committee for the Motor Industry, Private Bag 117, Pretoria, within 30 days of the date of publication hereof.

A. E. TROLLIP,
Minister of Labour.

INHOUD.

No.	BLADSY
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GOEWERMENSKENNISGEWINGS.	
R.1140. Nasionale Vakleerlingskapkomitee vir die Motornywerheid: Herpublikasie van Goewermenskennisgewing No. 316 van 13 Februarie 1953 ...	1
R.1141. Nasionale Vakleerlingskapkomitee vir die Motornywerheid: Voorgenome Intrekking en Voorskrywing van Leervoerwaardes ...	1

CONTENTS.

No.	PAGE
Department of Labour.	
GOVERNMENT NOTICES.	
R.1140. National Apprenticeship Committee for the Motor Industry: Republication of Government Notice No. 316 of the 13th February, 1953 ...	1
R.1141. National Apprenticeship Committee for the Motor Industry: Proposed Withdrawal and Prescription of Conditions of Apprenticeship ...	1



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