

Republic of the Philippines
TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY
East Service Road, South Luzon Expressway, Taguig City

122nd TESDA BOARD MEETING
11 August 2020, Tuesday, 9:00 a.m.
Teleconference Via Zoom Platform

Resolution No. 2020 - 33
(Page 1 of 4 pages)

**APPROVING AND PROMULGATING THE TRAINING REGULATIONS FOR
AUTOMOTIVE SERVICING (CHASSIS REPAIR) NC II**

WHEREAS, TESDA Board Resolution No. 2013-11 was issued "Approving and Promulgating the Amendments of the Training Regulations for Automotive Servicing NCI, Automotive Servicing NC II, Automotive Servicing NC III and Automotive Servicing NC IV" last 17 December 2013 during the 87th TESDA Board Meeting;

WHEREAS, it is the policy of TESDA to review after three (3) years any Training Regulations (TRs) promulgated by the TESDA Board;

WHEREAS, there is a need to review the existing Training Regulations in view of the developments in technology and current trends and practices in the industry;

WHEREAS, the **Chamber of Automotive Manufacturers of the Philippines, Inc. (CAMPI)** with the assistance of Qualifications and Standards Office (QSO) of TESDA have reviewed the existing Training Regulations in Automotive Servicing NC II to response to the current skills requirements of the industry with its new technologies and industry manpower set-up and recommended amendments;

WHEREAS, industry experts and partners, headed by the **President of the Chamber of Automotive Manufacturers of the Philippines, Inc. (CAMPI)**, with the technical assistance of the Qualifications and Standards Office (QSO) of TESDA endorsed the proposed revisions of the Training Regulations. The existing Training Regulations shall be replaced with three (3) different Training Regulations, based on the current skills requirements of the industry with its new technologies and industry manpower set-up;

WHEREAS, during the 125th Standards-Setting and Systems Development (SSSD) Committee Meeting held on 03 August 2020, the Committee deliberated upon and agreed to favorably recommend the approval and promulgation of the Training Regulations for Automotive Servicing (Chassis Repair) NC II as attached in Annex "A" and made an integral part of this Resolution;

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AUTOMOTIVE SERVICING (CHASSIS REPAIR) NC II**

WHEREAS, during the 122nd TESDA Board Meeting on 11 August 2020, the TESDA Board deliberated and considered the proposed Training Regulations for Automotive Servicing (Chassis Repair) NC II;

NOW, THEREFORE, BE IT RESOLVED AS IT IS HEREBY RESOLVED, that the aforementioned Automotive Servicing (Chassis Repair) NC II as herein appended is hereby approved and promulgated;

BE IT RESOLVED, FINALLY, that:

(1) Copies of this Resolution and the abovementioned Training Regulations be published in the Official Gazette or in a newspaper of general circulation, and disseminated to all concerned, and the same shall be effective fifteen (15) days upon publication;

(2) All programs registered under the current Automotive Servicing NC II must comply with the requirements of the abovementioned Training Regulations. The one-year period of re-registration under this Training Regulations shall commence on the date of effectivity as indicated in the Implementing Guidelines/ TESDA Circular for the deployment of the Training Regulations to be issued by the TESDA Secretariat; and

(3) Graduates of TVET programs covered by the aforementioned Training Regulations shall be required to undergo mandatory assessment under the national assessment and certification program.

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**APPROVING AND PROMULGATING THE TRAINING REGULATIONS FOR
AUTOMOTIVE SERVICING (CHASSIS REPAIR) NC II**

Adopted this 11th day of August 2020.


ATTY. MARICHELLE D. DE GUZMAN
Board Secretary VI

Attested by:


SEC. ISIDRO S LAPEÑA, PhD, CSEE
Designated Chairperson, TESDA Board
Director General, TESDA

(Original Signed)
USEC. RENATO L. EBARLE
Department of Labor and Employment

(Original Signed)
USEC. EPIMACO V. DENSING
Department of Interior & Local
Government

(Original Signed)
USEC. BRENDA L. NAZARETH-MANZANO
Department of Science & Technology

(Original Signed)
MR. ISIDRO ANTONIO C. ASPER
Board Member, Labor Sector

(Original Signed)
ATTY. BAYANI G. DIWA
Board Member, Labor Sector

(Original Signed)
MR. RENE LUIS M. TADLE
Board Member, Labor Sector

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**APPROVING AND PROMULGATING THE TRAINING REGULATIONS FOR
AUTOMOTIVE SERVICING (CHASSIS REPAIR) NC II**

(Original Signed)
MR. RAMON R. DE LEON
Board Member, Labor Sector

(Original Signed)
MR. ROGELIO J. CHAVEZ, JR.
Board Member, Labor Sector

(Original Signed)
DR. LEONIDA BAYANI-ORTIZ
Board Member, Employer Sector

(Original Signed)
PROF. RANDOLPH I. NONATO
Board Member, Employer Sector

(Original Signed)
MS. MARY G. NG
Board Member, Business & Investment
Sector

(Original Signed)
MR. ARTURO M. MILAN
Board Member, Business & Investment
Sector

AMENDMENT ON TRAINING REGULATIONS FOR AUTOMOTIVE SERVICING (CHASSIS REPAIR) NC II

Existing Promulgated Training Regulations (Board Resolution No. 2013-11)	Amendments
Qualification Title	
Automotive Servicing NC II	Automotive (Chassis Repair) NC II
SECTION 1 – Definition of the Qualification	
The AUTOMOTIVE SERVICING NC II Qualification consists of competencies that a person must achieve to inspect, clean and repair mechanical or electrical parts, components, assemblies and sub-assemblies of light and heavy-duty automotive vehicle with diesel or gas engine in accordance with manufacturer's specification. It also covers servicing of engine mechanical components such as cooling and lubricating system; performing power train and underchassis servicing and repair.	The AUTOMOTIVE SERVICING (CHASSIS OPERATION) NC II Qualification consists of competencies that a person must achieve to inspect and repair drive lines, basic diagnosing and repair clutch system, basic diagnosing and overhaul manual transmission/transaxle, and basic diagnose and overhaul differential. It also includes the basic diagnosing and repairing of brake system, steering system, and suspension system.
Job Title	
<ul style="list-style-type: none"> Automotive Mechanic Automotive Service Technician 	<ul style="list-style-type: none"> Automotive Service Specialist (Chassis) Automotive Chassis Specialist Chassis Repair Personnel
SECTION 2: Competency Standards	
<u>Basic Competencies</u>	<u>Basic Competencies</u>
<ol style="list-style-type: none"> Participate in Workplace Communication Work in Team Environment Practice Career Professionalism Practice Occupational Health and Safety Procedures 	<ol style="list-style-type: none"> Participate in workplace communication Work in team environment Solve/address general workplace problems Develop career and life decisions Contribute to workplace innovation Present relevant information Practice occupational safety and health policies and procedures Exercise efficient and effective sustainable practices in the workplace Practice entrepreneurial skills in the workplace
<u>Common Competencies</u>	<u>Common Competencies</u>
<ol style="list-style-type: none"> Apply appropriate sealant/adhesive Move and position vehicle Perform mensuration and calculation Read, interpret and apply specifications and manuals Use and apply lubricants/coolants Perform shop maintenance Perform job estimates Interpret/ draw technical drawing 	<ol style="list-style-type: none"> Validate vehicle specification Move and position vehicle Utilize automotive tools Perform mensuration and calculation Utilize workshop facilities and equipment Prepare servicing parts and consumables Prepare vehicle for servicing and releasing

AMENDMENT ON TRAINING REGULATIONS FOR AUTOMOTIVE SERVICING (CHASSIS REPAIR) NC II

Existing Promulgated Training Regulations (Board Resolution No. 2013-11)	Amendments
9. Practice health, safety and environment procedures 10. Inspect technical quality of work 11. Maintain quality systems 12. Provide work skill instructions 13. Identify and select original automotive parts and products	
<u>Core Competencies</u> 1. Service Automotive Battery 2. Service Ignition System 3. Test and Repair Wiring/Lighting System 4. Service Starting System 5. Service Charging System 6. Service Engine Mechanical System 7. Service Clutch System 8. Service Differential and Front Axle 9. Service Steering System 10. Service Brake System 11. Service Suspension System 12. Perform Underchassis Preventive Maintenance 13. Overhaul Manual Transmission	<u>Core Competencies</u> 1. Diagnose and repair drive lines 2. Diagnose and repair clutch system 3. Diagnose and overhaul manual transmission/transaxle 4. Diagnose and overhaul differential 5. Diagnose and repair brake system 6. Diagnose and repair steering system 7. Diagnose and repair suspension system
SECTION 3: Training Standards	
3.1 Curriculum Design: Nominal Training Hours: 18 Hours (Basic Competencies) 40 Hours (Common Competencies) 618 Hours (Core Competencies) 676 Hours	Nominal Training Duration: 37 Hours (Basic Competencies) 162 Hours (Common Competencies) 170 Hours (Core Competencies) 369 176 SIL 545 TOTAL HOURS
Course Description	
This course is designed to enhance the knowledge, skills and attitudes of an individual in the field of automotive servicing in accordance with industry standards. It covers specialized competencies such as service automotive battery, service ignition system, Test and Repair Wiring/ Lighting System, Perform Under Chassis Preventive Maintenance, Perform Shop Maintenance, repair charging and starting system, service engine mechanical system, service and repair clutch system, service and repair differential and front axle, Service steering system, Overhaul Manual Transmission, Service	This course is designed to enhance the knowledge, skills and attitudes of an individual in the field of automotive servicing in accordance with industry standards. It covers specialized competencies such as inspecting and repairing drive lines; diagnosing and repairing clutch system, brake system, steering system, suspension system; and diagnosing and overhauling manual transmission/transaxle, and differential. Upon completion of the course, the learners are expected to demonstrate the above-

AMENDMENT ON TRAINING REGULATIONS FOR AUTOMOTIVE SERVICING (CHASSIS REPAIR) NC II

Existing Promulgated Training Regulations (Board Resolution No. 2013-11)	Amendments
<p>Brake System, Repair Suspension System Repair Suspension System. It covers the basic, common and core competencies.</p> <p>This course is also designed to enhance the basic and common knowledge, skills and attitudes of an individual in the field of automotive servicing.</p>	<p>mentioned competencies to be employed. To obtain this, all units prescribed for this qualification must be achieve.</p>
<p>3.2 Training Delivery</p>	
<p>The delivery of training should adhere to the design of the curriculum. Delivery should be guided by the 10 basic principles of competency-based TVET.</p> <ul style="list-style-type: none"> • The training is based on curriculum developed from the competency standards; • Learning is modular in its structure; • Training delivery is individualized and self-paced; • Training is based on work that must be performed; • Training materials are directly related to the competency standards and the curriculum modules; • Assessment is based in the collection of evidence of the performance of work to the industry required standard; • Training is based both on and off-the-job components; • Allows for recognition of prior learning (RPL) or current competencies; • Training allows for multiple entry and exit; and • Approved training programs are nationally accredited. <p>The competency-based TVET system recognizes various types of delivery modes, both on and off-the-job as long as the learning is driven by the competency standards specified by the industry. The following training modalities may be adopted when designing training programs:</p> <ul style="list-style-type: none"> • The dualized mode of training delivery is preferred and recommended. Thus programs would contain both in-school and in-industry training or fieldwork components. Details can 	<p>1. The delivery of training shall adhere to the design of the curriculum. Delivery shall be guided by the principles of competency-based TVET.</p> <ul style="list-style-type: none"> a. Course design is based on competency standards set by the industry or recognized industry sector; (Learning system is driven by competencies written to industry standards) b. Training delivery is learner-centered and should accommodate individualized and self-paced learning strategies; c. Training can be done on an actual workplace setting, simulation of a workplace and/or through adoption of modern technology. d. Assessment is based in the collection of evidence of the performance of work to the industry required standards; e. Assessment of competency takes the trainee's knowledge and attitude into account but requires evidence of actual performance of the competency as the primary source of evidence. f. Training program allows for recognition of prior learning (RPL) or current competencies; g. Training completion is based on satisfactory performance of all specified competencies. <p>2. The competency-based TVET system recognizes various types of delivery modes, both on-and off-the-job as long as the learning is driven by the competency standards specified by the industry. The following training modalities and their variations/components may be adopted singly or in combination with other</p>

AMENDMENT ON TRAINING REGULATIONS FOR AUTOMOTIVE SERVICING (CHASSIS REPAIR) NC II

Existing Promulgated Training Regulations (Board Resolution No. 2013-11)	Amendments
<p>be referred to the Dual Training System (DTS) Implementing Rules and Regulations.</p> <ul style="list-style-type: none"> • Modular/self-paced learning is a competency-based training modality wherein the trainee is allowed to progress at his own pace. The trainer facilitates the training delivery • Peer teaching/mentoring is a training modality wherein fast learners are given the opportunity to assist the slow learners. • Supervised industry training or on-the-job training is an approach in training designed to enhance the knowledge and skills of the trainee through actual experience in the workplace to acquire specific competencies prescribed in the training regulations. • Distance learning is a formal education process in which majority of the instruction occurs when the students and instructor are not in the same place. Distance learning may employ correspondence study, or audio, video or computer technologies. 	<p>modalities when designing and delivering training programs:</p> <p>2.1 School/Institution- Based:</p> <ul style="list-style-type: none"> • Dual Training System (DTS)/Dualized Training Program (DTP) which contain both in-school and in-industry training or fieldwork components. Details can be referred to the Implementing Rules and Regulations of the DTS Law and the TESDA Guidelines on the DTP; • Distance learning is a formal education process in which majority of the instruction occurs when the students and instructor are not in the same place. Distance learning may employ correspondence study, audio, video, computer technologies or other modern technology that can be used to facilitate learning and formal and non-formal training. Specific guidelines on this mode shall be issued by the TESDA Secretariat. • Supervised Industry Training (SIT) or on-the-job training (OJT) is an approach in training designed to enhance the knowledge and skills of the trainee through actual experience in the workplace to acquire specific competencies as prescribed in the training regulations. It is imperative that the deployment of trainees in the workplace is adhered to training programs agreed by the institution and enterprise and status and progress of trainees are closely monitored by the training institutions to prevent opportunity for work exploitation. • The classroom-based or in-center instruction uses of learner-centered methods as well as laboratory or field-work components.

AMENDMENT ON TRAINING REGULATIONS FOR AUTOMOTIVE SERVICING (CHASSIS REPAIR) NC II

Existing Promulgated Training Regulations (Board Resolution No. 2013-11)	Amendments
	<p>2.2 Enterprise-Based:</p> <ul style="list-style-type: none"> • Formal Apprenticeship – Training within employment involving a contract between an apprentice and an enterprise on an approved apprenticeable occupation. • Informal Apprenticeship - is based on a training (and working) agreement between an apprentice and a master craftsperson wherein the agreement may be written or oral and the master craftsperson commits to training the apprentice in all the skills relevant to his or her trade over a significant period of time, usually between one and four years, while the apprentice commits to contributing productively to the work of the business. Training is integrated into the production process and apprentices learn by working alongside the experienced craftsperson. • Enterprise-based Training- where training is implemented within the company in accordance with the requirements of the specific company. Specific guidelines on this mode shall be issued by the TESDA Secretariat. <p>2.3 Community-Based – short term program conducted by non-government organizations (NGOs), LGUs, training centers and other TVET providers which are intended to address the specific needs of a community. Such programs can be conducted in informal settings such as barangay hall, basketball courts, etc. These programs can also be mobile training program (MTP).</p>
3.3 Trainee Entry Requirements	
<p>Trainees or students should possess the following requirements:</p> <ul style="list-style-type: none"> • can communicate both oral and written; • can perform basic mathematical computation. 	<p>Trainees or students who would like to enroll in this program must possess the following requirements:</p>

AMENDMENT ON TRAINING REGULATIONS FOR AUTOMOTIVE SERVICING (CHASSIS REPAIR) NC II

Existing Promulgated Training Regulations (Board Resolution No. 2013-11)	Amendments
<p>This list does not include specific institutional requirements such as educational attainment, appropriate work experience, and others that may be required of the trainees by the school or training center delivering the TVET program.</p>	<ul style="list-style-type: none"> • Must be holder of Automotive Servicing NC I • Basic communication skills • Basic mathematical skills <p>This list does not include specific institutional requirements such as educational attainment, appropriate work experience, and others that may be required of the trainees by the school or training center delivering the TVET program.</p>

3.4 List of Tools, Equipment and Materials

Recommended list of tools, equipment and materials for the training of 20 trainees for Automotive Servicing – NC II

TOOLS		EQUIPMENT		MATERIALS	
QTY		QTY		QTY	
4 sets	• Box wrench	2 units	• Motor Vehicle	50 ltrs.	• Engine oil
4 sets	• Socket wrench	2 units	• Engine	10 ltrs.	• Grease
4 sets	• Pliers	2 units	• Hydraulic jack/lift	10 ltrs.	• Sealant /adhesive
4 sets	• Screw driver	4 units	• Growler tester	50 ltrs.	• Hydraulic oils/gear oil
4 sets	• Wire stripper	4 units	• Ignition timing light	50 ltrs.	• Automatic transmission fluid
4 sets	• Mechanic's hammer	4 units	• Tachometer	10 pcs.	• Wheel wedges
20 pcs.	• Apron	4 units	• Differential and front axle	10 pcs.	• Test lamp
20 pcs.	• Goggle	4 units	• Multimoter		
20 pcs.	• Glove				
4 sets	• Torque wrench				
4 sets	• Feeler gauge				
4 sets	• Battery tester				
4 sets	• Hydrometer				
4 sets	• Dial gauge				
4 sets	• Bore gauge				
4 sets	• Micrometer caliper				

AUTOMOTIVE SERVICING (CHASSIS REPAIR) NC II

Recommended list of tools, equipment and materials for the training of 25 trainees for Automotive Servicing (Chassis Repair) NC II.

Up-to-date tools, materials, and equipment of equivalent functions can be used as alternatives. This also applies in consideration of community practices and their availability in the local market.

A. FULL QUALIFICATION

TOOLS	
QTY	DESCRIPTION
4 sets	Standard technician hand tools
2 pcs	Dial gauge with magnetic stand
4 pcs	Vernier caliper
2 pcs	Torque wrench (30 kgf- cm)
2 pcs	Torque wrench (230 kgf- cm)
2 pcs	Torque wrench (450 kgf- cm)
2 pcs	Torque wrench (920 kgf- cm)
2 pcs	Torque wrench (1900 kgf- cm)
2 pcs	Torque wrench (2800 kgf- cm)
5 pcs	Plug (prevent oil leakage from transmission)
2 pcs	Puller (to remove flange coupling lock nut)
2 pcs	Puller (to remove flange coupling)
2 pcs	Puller (to remove spider bearing)
1 pc	Puller (for removing the drive shaft)
1 pc	Puller (for removing the axle shaft)
2 pcs	Puller (for removing transmission gears)
2 pcs	Surface plate, 30cmx30cm
2 pcs	Drive shaft nut chisel (for un staking the front axle shaft nut)
4 pcs	V block
4 pcs	Union nut wrench (10 mm)*
4 pcs	Snap ring expander
4 pcs	Hexagon socket wrench (6 mm)*
4 pcs	Hexagon socket wrench (8 mm)*
4 pcs	Pin punch (5mm)*
4 pcs	Plastic hammer
5 pcs	Ball peen hammer, 1lb
4 pcs	Micrometer (0 – 25mm)
4 pcs	Caliper gauge
4 pcs	Inside diameter measuring tools

AMENDMENT ON TRAINING REGULATIONS FOR AUTOMOTIVE SERVICING (CHASSIS REPAIR) NC II

Existing Promulgated Training Regulations (Board Resolution No. 2013-11)	Amendments																																																																																																																						
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pc</td><td>Tire gauge</td></tr> <tr><td>5 pcs</td><td>Feeler gauge</td></tr> <tr><td>2 pcs</td><td>C-clamp</td></tr> <tr><td>2 pcs</td><td>Wheel wedge</td></tr> <tr><td>1 pc</td><td>Pilot bearing puller</td></tr> <tr><td>4 pcs</td><td>Brake bleeder</td></tr> <tr><td>1 pc</td><td>Tire pressure gauge, ball pen type</td></tr> <tr><td>2 pcs</td><td>SST (prevent oil leakage from transmission)*</td></tr> <tr><td>2 pcs</td><td>SST (puller for removing transmission gears)*</td></tr> <tr><td>2 pcs</td><td>SST (to remove flange coupling lock nut)*</td></tr> <tr><td>2 pcs</td><td>SST (to remove flange coupling)*</td></tr> <tr><td>2 pcs</td><td>Special tools (such as sliding hammer)*</td></tr> </tbody> </table> <table border="1" data-bbox="852 1095 1444 1741"> <thead> <tr> <th colspan="2">EQUIPMENT</th></tr> <tr> <th>QTY</th><th>DESCRIPTION</th></tr> </thead> <tbody> <tr><td>1 unit</td><td>Training vehicle (light) with manual transmission, (model year: 2000 and up)</td></tr> <tr><td>2 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type	2 pcs	SST (prevent oil leakage from transmission)*	2 pcs	SST (puller for removing transmission gears)*	2 pcs	SST (to remove flange coupling lock nut)*	2 pcs	SST (to remove flange coupling)*	2 pcs	Special tools (such as sliding hammer)*	EQUIPMENT		QTY	DESCRIPTION	1 unit	Training vehicle (light) with manual transmission, (model year: 2000 and up)	2 units	Manual transmission	2 units	Manual transaxle	2 units	Crocodile jack, 3 tons	8 units	Safety stand (for crocodile jack use only)	1 unit	Lifter, 3 tons	1 unit	Transmission jack (for lifter), 1 ton	1 unit	Air reel	1 unit	Electrical reel	1 unit	Workshop air compressor with air line, 2hp	1 unit	Electric drill	5 units	Air dust gun	4 units	Work bench with vise	1 unit	Hydraulic press, 1 ton	1 unit	Bench Grinder, 1hp	1 unit	Tracking gauge for measuring toe angle	2 units	Turning radius gauge	1 unit	Camber-caster-kingpin Gauge	1 unit	Wheel balancer	1 unit	Grease gun	8 pcs	Wheel wedge	1 pc	Creeper	1 pc	Trouble light	1 pc	Oil bucket, 20L cap	1 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2 pcs	Wheel wedge																																																																																																																						
1 pc	Pilot bearing puller																																																																																																																						
4 pcs	Brake bleeder																																																																																																																						
1 pc	Tire pressure gauge, ball pen type																																																																																																																						
2 pcs	SST (prevent oil leakage from transmission)*																																																																																																																						
2 pcs	SST (puller for removing transmission gears)*																																																																																																																						
2 pcs	SST (to remove flange coupling lock nut)*																																																																																																																						
2 pcs	SST (to remove flange coupling)*																																																																																																																						
2 pcs	Special tools (such as sliding hammer)*																																																																																																																						
EQUIPMENT																																																																																																																							
QTY	DESCRIPTION																																																																																																																						
1 unit	Training vehicle (light) with manual transmission, (model year: 2000 and up)																																																																																																																						
2 units	Manual transmission																																																																																																																						
2 units	Manual transaxle																																																																																																																						
2 units	Crocodile jack, 3 tons																																																																																																																						
8 units	Safety stand (for crocodile jack use only)																																																																																																																						
1 unit	Lifter, 3 tons																																																																																																																						
1 unit	Transmission jack (for lifter), 1 ton																																																																																																																						
1 unit	Air reel																																																																																																																						
1 unit	Electrical reel																																																																																																																						
1 unit	Workshop air compressor with air line, 2hp																																																																																																																						
1 unit	Electric drill																																																																																																																						
5 units	Air dust gun																																																																																																																						
4 units	Work bench with vise																																																																																																																						
1 unit	Hydraulic press, 1 ton																																																																																																																						
1 unit	Bench Grinder, 1hp																																																																																																																						
1 unit	Tracking gauge for measuring toe angle																																																																																																																						
2 units	Turning radius gauge																																																																																																																						
1 unit	Camber-caster-kingpin Gauge																																																																																																																						
1 unit	Wheel balancer																																																																																																																						
1 unit	Grease gun																																																																																																																						
8 pcs	Wheel wedge																																																																																																																						
1 pc	Creeper																																																																																																																						
1 pc	Trouble light																																																																																																																						
1 pc	Oil bucket, 20L cap																																																																																																																						
1 pc	Drain pan, 20L cap																																																																																																																						
1 pc	Differential stand																																																																																																																						
1 unit	Wheel aligner																																																																																																																						

AMENDMENT ON TRAINING REGULATIONS FOR AUTOMOTIVE SERVICING (CHASSIS REPAIR) NC II

Existing Promulgated Training Regulations (Board Resolution No. 2013-11)

Amendments

MATERIALS	
QTY	DESCRIPTION
5 cans	Grease (500mg/can)
2 cans	Penetrating oil (500ml/cans)
25 pcs	Rags
8 L	Gear oil
8 L	Engine oil
2 L	Brake fluid
5 sets	Mop
5 units	Trash bins, 10 L
2 rolls	Electrical tape
100 grams	lithium soap base glycol grease
4 sets	Caliper brake overhauling (O/H) kit
2 liters	Power steering fluid
4 sets	Drum brake overhauling (O/H) kit
2 sets	Brake wheel cylinder repair kit
12 pcs	Sandpaper, assorted
2 pcs	Tailor Chalk
4 pcs	Container (for bleeding fluid)
4 pcs	Tray, aluminum, 20cmx20cm
4 pcs	Vinyl hose (2 m)
10 pcs	Adjusting bolt (of various sizes)*
1 tube	Mechanic blue, 200ml
1 box	Brake cleaner
1 can	Degreaser, 450ml
2 tubes	Sealant
5 sachets	Soap detergent
1 set	First aid kit
1 unit	Fire extinguisher, 5 lbs, ABC
1 gallon	70% alcohol**
4 pcs	Manual References: -Repair manuals -Workshop
PPEs:	
25 pairs	Gloves
10 pcs	Hard hat
25 pairs	Safety shoes
25 pcs	Cover all
25 pcs	Face mask
25 pcs	Goggles
25 pcs	Face shield**

NOTE:

- Access to and use of equipment/facilities can be provided through cooperative arrangements or MOA with other partner/companies.
- Items with asterisk (*) are specific to the brand and model of vehicle as per repair manual.
- Items with asterisk (**) will be required during the pandemic as mandated by the existing guidelines issued by the government in line with protection against virus and other infectious diseases for trainees and trainers.

3.5 Training Facilities

The automotive workshop must be made of reinforced concrete or steel structure. The size must be suited on the requirements of the competencies. The class size of 25 students/trainees is reserved for the lecture room and the practical demonstration area for carrying out servicing of minor automotive parts. Most of the learning activities such as on-vehicle servicing are performed in the workshop.

SPACE REQUIREMENT	SIZE IN METERS	AREA IN SQ. METERS	TOTAL AREA IN SQ. METERS
• Building (permanent)	12.00 x 32.00	-	384.00
• Student/Trainee Working Space	2.50 x 2.50 per student/trainee	6.25 per student	156.25
• Contextual Learning Laboratory	4.00 x 5.00	20.00	20.00
• Lecture Room	4.00 x 7.00	28.00	28.00
• Learning Resource Center	4.00 x 5.00	20.00	20.00
• Facilities/Equipment /Circulation Area	-	-	159.75

AUTOMOTIVE SERVICING (CHASSIS REPAIR) NC II

Based on a class intake of 25 learners/trainees.

SPACE REQUIREMENT	SIZE IN METERS	AREA IN SQ. METERS	GRAND TOTAL AREA IN SQ. METERS
A. Building (permanent)			164.00
Lecture Room	5x6	30	30
Laboratory/Workshop Area	4x7	28x3	84
• Wheel aligner pit			
Tool room & S/M storage area		20	20
Learning resource area	5x4	20	20
Wash area/comfort room (male & female)		10	10
TOTAL			164.00

NOTE: Access to and use of equipment/facilities can be provided through cooperative arrangements or MOA with other partner-companies/institutions.

AMENDMENT ON TRAINING REGULATIONS FOR AUTOMOTIVE SERVICING (CHASSIS REPAIR) NC II

Existing Promulgated Training Regulations (Board Resolution No. 2013-11)	Amendments
<p>3.6 Trainer's Qualification</p> <p>AUTOMOTIVE/LAND TRANSPORT SECTOR AUTOMOTIVE SERVICING – NC II</p> <ul style="list-style-type: none"> • Holder of National TVET Trainers Certificate (NTTC) Level 1 - Automotive Servicing NC II • Must be computer literate • *Must have at least 2 years job/industry experience 	<p>TRAINER'S QUALIFICATIONS FOR AUTOMOTIVE SERVICING (CHASSIS REPAIR) NC II</p> <p>NEW TRAINERS</p> <ul style="list-style-type: none"> • Holder of National TVET Trainers Certificate (NTTC) Level 1 in Automotive Servicing (Chassis Repair) NC II • Must have at least 1-year industry experience in Automotive Servicing for the last 3 years <p>EXISTING TRAINERS</p> <ul style="list-style-type: none"> • Holder of National TVET Trainers Certificate (NTTC) Level 1 in Automotive Servicing (Chassis Repair) NC II • Must have industry immersion of 40 hours annually (industry training which includes structured training program inclusive of hands-on activities, observation in a workshop, and training certificates with number of hours)
<p>3.7 Institutional Assessment</p> <p>Institutional assessment is undertaken by trainees to determine their achievement of units of competency. A certificate of achievement is issued for each unit of competency.</p>	<p>Institutional Assessment is gathering of evidences to determine the achievements of the requirements of the qualification to enable the trainer make judgement whether the trainee is competent or not competent.</p>
<p>SECTION 4. National Assessment and Certification Arrangements</p>	
<p>4.1 To attain the National Qualification of Automotive Servicing NC II, the candidate must demonstrate competence through project-type assessment covering all the units listed in Section 1. Successful candidates shall be awarded a National Certificate signed by the TESDA Director General.</p> <p>4.2 Individual aspiring to be awarded the qualification of Automotive Servicing NC II must acquire Certificates of Competency in all the following core units of the Qualification. Candidates may apply for assessment in any accredited assessment center.</p>	<p>Competency Assessment is the process of collecting evidence and making judgments whether competency has been achieved. The purpose of assessment is to confirm that an individual can perform to the standards expected at the workplace as expressed in relevant competency standards.</p> <p>The assessment process is based on evidence or information gathered to prove achievement of competencies. The process may be applied to a full qualification or employable unit(s) of competency in partial fulfillment of the requirements of the national qualification.</p>

AMENDMENT ON TRAINING REGULATIONS FOR AUTOMOTIVE SERVICING (CHASSIS REPAIR) NC II

Existing Promulgated Training Regulations (Board Resolution No. 2013-11)	Amendments
<p>4.2.1 Service Engine Component</p> <ul style="list-style-type: none"> <input type="checkbox"/> Service Engine Mechanical Components <p>4.2.2 Service Automotive Electrical Components</p> <ul style="list-style-type: none"> <input type="checkbox"/> Service Automotive Battery <input type="checkbox"/> Service Ignition System <input type="checkbox"/> Test and Repair Wiring/Lighting System <input type="checkbox"/> Service Starting System <input type="checkbox"/> Service Charging System <p>4.2.3 Service Underchassis Components</p> <ul style="list-style-type: none"> <input type="checkbox"/> Perform Underchassis Preventive Maintenance <input type="checkbox"/> Service Steering System <input type="checkbox"/> Service Brake System <input type="checkbox"/> Service Suspension System <p>4.2.4 Service Powertrain Components</p> <ul style="list-style-type: none"> <input type="checkbox"/> Service Clutch System <input type="checkbox"/> Service Differential and Front Axle <input type="checkbox"/> Overhaul Manual Transmission <p>Successful candidates shall be awarded Certificates of Competency (COC).</p> <p>4.3 Accumulation and submission of all COCs acquired for the relevant units of competency comprising a qualification, an individual shall be issued the corresponding National Certificate.</p> <p>4.4 Assessment shall focus on the core units of competency. The basic and common units shall be integrated or assessed concurrently with the core units.</p> <p>4.5 The following are qualified to apply for assessment and certification:</p> <p>4.5.1 Graduates of formal, non-formal and informal including enterprise-based training programs.</p> <p>4.5.2 Experienced workers (wage employed or self employed)</p>	<p>4.1. NATIONAL ASSESSMENT AND CERTIFICATION ARRANGEMENTS</p> <p>4.1.1 The National Certificate Qualification for AUTOMOTIVE SERVICING (CHASSIS REPAIR) NC II shall be obtained when a candidate demonstrates competence through project-type assessment covering all units of competency listed in Section 1. Successful candidates shall be awarded a National Certificate signed by the TESDA Director General</p> <p>4.1.2 Assessment shall cover all competencies, with basic and common integrated or assessed concurrently with the core units of competency.</p> <p>4.1.3 The following are qualified to apply for assessment and certification, as long as they are holders of National Certificate in the amended Automotive Servicing NC I:</p> <p>4.1.3.1 Graduates of WTR-registered program on Automotive Servicing (Chassis Repair) NC II, or graduates of NTR programs or of enterprise-based training programs related to automotive servicing (chassis repair) ; or</p> <p>4.1.3.2 Candidates who gained competencies in implementing automotive servicing (chassis repair) or any related field through informal training or previous work experiences for at least two (2) years; or</p> <p>4.1.4 Current holders of National Certificate (NC) in AUTOMOTIVE SERVICING NC II shall have their certificates renewed and converted</p>

AMENDMENT ON TRAINING REGULATIONS FOR AUTOMOTIVE SERVICING (CHASSIS REPAIR) NC II

Existing Promulgated Training Regulations (Board Resolution No. 2013-11)	Amendments
<p>4.6 The guidelines on assessment and certification are discussed in detail in the "Procedures Manual on Assessment and Certification" and "Guidelines on the Implementation of the Philippine TVET Qualification and Certification System (PTOQCS)".</p>	<p>to the amended TR provided he/she has accumulated at least 2 years (for the last five years) work experience, practicing the competencies prescribed in his/her certificate. A Certificate of Employment and Job Description must be provided as proof. He/she must be a holder of National Certificate in the amended Automotive Servicing NC I.</p> <p>4.1.5 Current holders of Certificate of Competency (COC) in AUTOMOTIVE SERVICING NC II, shall have to undergo assessment in the amended Training Regulations upon expiration of their Certificates. He or she must be a holder of National Certificate in the amended Automotive Servicing NC I.</p> <p>4.1.6 Current holders of NTTC Level I in AUTOMOTIVE SERVICING NC II shall have their NC II converted to the amended TR provided that they have forty-eight (48) hours industry immersion within the last two (2) years. He or she must be a holder of National Certificate in the amended Automotive Servicing NC I.</p> <p>4.2. COMPETENCY ASSESSMENT REQUISITE</p> <p>4.2.1 Self-Assessment Guide. The self-assessment guide (SAG) is accomplished by the candidate prior to actual competency assessment. SAG is a pre-assessment tool to help the candidate and the assessor determine what evidence is available, where gaps exist, including readiness for assessment.</p>

**AMENDMENT ON TRAINING REGULATIONS FOR
AUTOMOTIVE SERVICING (CHASSIS REPAIR) NC II**

Existing Promulgated Training Regulations (Board Resolution No. 2013-11)	Amendments
	<p>This document can:</p> <ol style="list-style-type: none"> 1. Identify the candidate's skills and knowledge 2. Highlight gaps in candidate's skills and knowledge 3. Provide critical guidance to the assessor and candidate on the evidence that need to be presented 4. Assist the candidate to identify key areas in which practice is needed or additional information or skills that should be gained prior to assessment <p>4.2.2 Accredited Assessment Center. Only Assessment Center accredited by TESDA is authorized to conduct competency assessment. Assessment centers undergo a quality assured procedure for accreditation before they are authorized by TESDA to manage the assessment for National Certification.</p> <p>4.2.3 Accredited Competency Assessor. Only accredited competency assessor is authorized to conduct assessment of competence. Competency assessors undergo a quality assured system of accreditation procedure before they are authorized by TESDA to assess the competencies of candidates for National Certification.</p>