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

Resolution No. 2020 - 34 (Page 1 of 4 pages)

APPROVING AND PROMULGATING THE TRAINING REGULATIONS FOR AUTOMOTIVE SERVICING (ELECTRICAL 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 NCI, Automotive Servicing NCI, Automotive Servicing NCIV" 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

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

Resolution No. 2020 - 34 (Page 2 of 4 pages)

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

Training Regulations for Automotive Servicing (Electrical Repair) NC II as attached in Annex "A" and made an integral part of this Resolution;

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

NOW, THEREFORE, BE IT RESOLVED AS IT IS HEREBY RESOLVED, that the aforementioned Automotive Servicing (Electrical 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 oneyear 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.

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

Teleconference Via Zoom Platform

Resolution No. 2020 - 34 (Page 3 of 4 pages)

APPROVING AND PROMULGATING THE TRAINING REGULATIONS FOR AUTOMOTIVE SERVICING (ELECTRICAL 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

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

> Resolution No. 2020 - 34 (Page 4 of 4 pages)

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

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

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

(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

Existing Promulgated Training Regulation (Board Resolution No. 2013-11)	Amendments			
Qualification Title				
Automotive Servicing NC II	Automotive Servicing (Electrical Repair) NC II			
SECTION 1 – Definition of the Qualification	TI AUTOMOTIVE OFFICIAL			
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. Job Title • Automotive Mechanic	The AUTOMOTIVE SERVICING (ELECTRICAL OPERATION) NC II Qualification consists of competencies that a person must achieve to service manual airconditioner system, diagnose and repair manual airconditioner compressor magnetic clutch, diagnose and repair ignition system, diagnose and repair charging system and diagnose and repair body electrical system. • Electrical Technician (Automotive)			
Automotive Nechanic Automotive Service Technician	Aircon Technician (Automotive)			
SECTION 2: Competency Standards	Taranti (Automotivo)			
Basic Competencies	Basic Competencies			
 Participate in workplace communication Work in a team environment Practice career professionalism Practice occupational health and safety procedures 	 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 			
Common Competencies	Common Competencies			
 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 Practice health, safety and environment procedures Inspect technical quality of work Maintain quality systems 	 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 			

Existing Promulgated Training Regulation (Board Resolution No. 2013-11)	Amendments			
13. Identify and select original automotive parts and products				
Core Competencies	Core Competencies			
Service Automotive Battery Service Ignition System Test and Repair Wiring/Lighting System Service Starting System Service Charging System Service Engine Mechanical System Service Clutch System Service Differential and Front Axle Service Steering System Service Steering System Service Brake System Service Suspension System	 Service manual air-conditioner system Diagnose and repair manual air-conditioner system Repair manual air-conditioner compressor magnetic clutch Diagnose and repair ignition system Diagnose and repair starting system Diagnose and repair charging system Diagnose and repair body electrical system 			
3.1 Curriculum Design:				
Nominal Training Duration: 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) 213 Hours (Core Competencies) 412 176 SIL 588 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	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			
system, Overhaul Manual Transmission, Service Brake System, Repair Suspension System	expected to demonstrate the above-mentioned competencies to be employed. To obtain this,			

Existing Promulgated Training Regulation (Board Resolution No. 2013-11)	Amendments
Repair Suspension System. It covers the basic, common and core competencies.	all units prescribed for this qualification must be achieve.
This course is also designed to enhance the basic and common knowledge, skills and attitudes of an individual in the field of automotive servicing.	
3.2 Training Delivery	
The data of the second of the	

The delivery of training should adhere to the 1. The delivery of training shall adhere to design of the curriculum. Delivery should be guided by the 10 basic principles of competencybased TVET.

- The training is based on curriculum developed from the competency standards;
- · Learning is modular in its structure;
- Training delivery is individualized and selfpaced;
- · 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.

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:

· 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 be referred to the Dual Training System (DTS) Implementing Rules and Regulations.

- the design of the curriculum. Delivery shall be guided by the principles of competency-based TVET.
 - 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) Training delivery is learner-centered and should accommodate individualized and self-paced learning strategies;
 - b. Training can be done on an actual workplace setting, simulation of a workplace and/or through adoption of modern technology.
 - Assessment is based in the collection of evidence of the performance of work to the industry required standards;
 - d. 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.
 - e. Training program allows for recognition of prior learning (RPL) or current competencies:
 - f. Training completion is based on satisfactory performance of all specified competencies.
- 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 modalities when designing and delivering training programs:

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

- Modular/self-paced learning is a competencybased 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.

Amendments

2.1 School/Institution- Based:

- 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 fieldwork components.

2.2 Enterprise-Based:

 Formal Apprenticeship – Training within employment involving a contract between an apprentice and an

Existing Promulgated Training Regulation (Board Resolution No. 2013-11)	Amendments
	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.
	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).
3.3 Trainee Entry Requirements	

Trainees or students should possess the following requirements:

- · Can communicate both oral and written;
- Can perform basic mathematical computation.

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.

Trainees or students who would like to enroll in this program must possess the following requirements:

- A holder of National Certificate in Automotive Servicing NC I;
- · Basic communication skills;
- Basic mathematical skills;
- Basic computer skills

This list does not include specific institutional requirements such as educational attainment,

Existing Promulgated Training Regulation (Board Resolution No. 2013-11)	Amendments
	appropriate work experience, and others that may be required of the trainees by the school
	or training center delivering the TVET program.
8.4 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		EQ	UIPMENT	N	MATERIALS
QTY		QTY	T		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	•	Multimeter		
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					

Recommended list of tools, equipment and materials for the training of 25 trainees for Automotive Servicing (Electrical 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.

Full Qualification:

	TOOLS		
QTY	DESCRIPTION		
5 sets	Basic hand tools		
	(Mechanical pliers, Screw driver,		
	socket wrench, spanner, hammer)		
1 set	AC clutch coil puller		
1 set	Alternator bearing puller		
5 pc	Snap ring plier		
5 pc	Straight hexagon wrench		
5 pcs.	Torque wrench		
5 pcs.	Feeler gauge		
2 nos	Service type Thermometer		
2 pcs	(10 to 100 degrees C)		
1 pc	hygrometer		
2 pcs	Timing light		
1 pc	Bench vice		
2 pcs	Belt tension gauge		
2 pcs	Wire splicer		
5 sets	Feeler gauge		
2 sets	Spark plug wrench		
2 3013	(14mm,16mm,21mm)		
1 pc	Vernier Caliper		
1 pc	Bench vice (6")		
1 set	Jumper cable (400amph)		
2 pcs	Trouble light LED (15w)		
1 unit	Battery/Load tester		
1 pc	Soldering iron		
	(60-100w)		
4 pc	Extension/power cable (10m)		
1 pc	Impact wrench		
1 roll per	Electrical wire(gauge10,12,14,16)		
size	100 100 100 100 100 100 100 100 100 100		

	EQUIPMENT
QTY	DESCRIPTION
2 units 1 gasoline type and 1 diesel type	Training vehicle with manual air- conditioning system (model 90's and up)
5 units	Alternator assembly

Existing Promulgated Training Regulation (Board Resolution No. 2013-11)	Amendments		
	5 uni	ts AC compressor assembly	
	1 se	AC Refrigerant recovery recharging	
	5 pc		
	5 pc		
	2 pc		
	5 pc		
	1 pc		
	2 pc		
	2 pc		
	2 pcs		
	5 set	s Manifold charging gauge with hose	
	2 set		
	1 un	it Vacuum pump	
	8 uni		
	2 pc		
	2 uni	3	
		(4ft x 2ft- wood)	
	2 uni		
	1 un		
	5 pc		
	1 un		
	1 un	t Battery charger	
		MATERIALS	
	QTY	DESCRIPTION	
	25 pairs	Cotton gloves	
	50 pc	Cotton rags	
	1 roll	Soldering lead	
	5 cans	Non-conductive electrical connector spray cleaner	
	50 pc	Eye terminal	
	50 pc	Male terminal	
	50 pc	Female terminal	
	5 rolls	Electrical tape	
		Automotive wire	
w.	10m/ty	 #10 awg 	
	pe	#12 awg	
		• #14 awg	
	20 pc	#16awg Alligator clip - Medium	
	20 pc	O- ring (assorted sizes and thickness)	
	50 pc	Cotton Rags	
	40 kg	Refrigerant, 134A	
	1 L	Compressor oil	
	5 pc	Shaft seal (assorted)	
	1 can	Nitrogen gas	
	1 pc	Desiccant materials	
	2 rolls	Butyl tape	
		PPEs	
		 Face mask 	
		 Face shield* 	
	25 pc -	- Goggles	
		- Coverall suit	
		- Safety shoes	
	1		
	gallon	70% Alcohol*	

Existing Promulgated Training Regulation (Board Resolution No. 2013-11)		Amendments		
		Grease		
	(100g)	Grease		
	250 ml	Penetrating oil		
	250 ml	Contact cleaner		
	1 m	Shrinkable tube (5 mm)		
	1 can	Soldering paste		
	1L	Cleaning agent		
	1L	Distilled water		
	1 pc	Heat gun		
	5	Sand paper		
	pc/grit			
	1 pack			
	1 box	Carbon brush		
	1 DOX	Switches		
	E nool	255 V 145 314 154 A CONTRACTOR		
	5 pcs/	. oggio omitori (o torrimiar)		
	type	. don pan ownor		
	2	Push button switch		
	2 pc	Relays (30-60 Amp)12 volts		
	2 pc	Fusible link for battery		
		Bulbs (12 volts)		
	2	Double contact		
	pcs/ty	 Single contact 		
	pe	 Headlight bulb 		
		 Peanut bulb 		
		Fuses		
		- 7.5 Amp		
	5pcs/	• 10 Amp		
	amp	15 Amp20 Amp		
		- 20 Amp		
		Car protective equipment (CPE)- all UCs		
		and 3 Qualifications		
		Steering wheel cover		
	2 sets	Fender cover		
	2 3013	Shift knob cover		
		Floor mat		
		Seat cover		
	PER COO			
		SERVICE AUTOMOTIVE MANUAL AIR-		
	CONDITIO	ONING SYSTEM		
	OTY	TOOLS		
	QTY	DESCRIPTION		
	2 sets	Basic hand tools		
	2 pcs	Straight hexagon wrench		
	2 pcs	Torque wrench (Required torque 100kg cm)		
	2 pcs	Feeler gauge		
	2 pcs	Service type thermometer		
	2 pcs	Multi-tester		

Existing Promulgated Training Regulation (Board Resolution No. 2013-11)	Amendments			
		EQUIPMENT		
	QTY	DESCRIPTION		
	1 set	Recovery and recycling machine		
	2 pcs	Manifold charging gauge with hose		
	1 set	Halogen leak detector		
	1 pc	Hygrometer		
	1 unit	Pressure washer		
	1 unit	Vacuum pump		
	2 pcs	Service trouble lamp		
	1 set	Refrigerant charging gauge with hose		
	1 unit	Graduated cylinder		
		MATERIALS		
	QTY	DESCRIPTION		
	10			
	pcs	O- ring (assorted sizes and thickness)		
	25	Page		
	pcs	Rags		
	20 kg	Refrigerant		
	0.5 L	Compressor oil		
	5 pcs	Shaft seal		
	1 cylind er	Nitrogen gas		
	1 pc	Desiccant materials		
	1 roll	Butyl tape		
	1 set	Car Protective Equipment (CPE)		
	2 rolls	Insulation tape		
	1 can	Penetrating oil		
	5 sets	Cleaning agent Cleaning solution Water		
	0 3013	Brush Soap suds		
		PPEs - Face mask		
		- Face shield*		
	25 pc	- Goggles		
		- Gloves		
		- Coverall suit		
		- Safety shoes		
	1 gallon	70% Alcohol*		
	COC 2 - SYSTEM	SERVICE AUTOMOTIVE ELECTRICAL		

Existing Promulgated Training Regulation (Board Resolution No. 2013-11)		
	QTY	DESCRIPTION
	3 set	Basic hand tools
	3 pc	Feeler or thickness gauge
	3 рс	Multi-tester (analog and digital)
	2 set	Spark-plug wrench
	3 pc	Torque wrench
	5 pc	Digital multitester
	1 pc	Bench vice
	1 pc	Clamp Type Ammeter (60-100Amp) (digital and analog)
	1 set	Jumper cable
	5 pc	Soldering iron
	5 pc	Soldering stand
	4 pc	Extension/power cable (10m)
	1 pc	Desoldering tool
	1 pc	Vernier caliper
	1pc/ty	Special Service Tools (SST)
	pe	-Pulley removal
		- Belt tension gauge
		- Alternator bearing puller
	1 pc	Impact wrench
	roll/siz e	Electrical wire(gauge10,12,14,16)
	2 pc	Hydrometer
	2 pc	Wire splicer
	1 pc	Clamp Type Ammeter
		EQUIPMENT
	QTY	DESCRIPTION
	2 pc	Timing light
	3 pc	Service trouble light
	1 unit	Vehicle lifter
	2 pc	Crocodile jack
	8 unit	Jack stand
	2 pc	Creeper
	1 unit	Battery charger
	1 unit	Battery load tester
	2 unit	Working table

xisting Promulgated Training Regulation (Board Resolution No. 2013-11)	Amendments	
,		MATERIALS
	QTY	DESCRIPTION
	25 pc	Cotton rags
	1 tube	
	(100g)	Grease
	5 rolls	Electrical tape
	250ml	Contact cleaner
	1 roll	Soldering lead
	1 can	Soldering lead Soldering paste
	- Can	Automotive wire
	11	#10 awg
	10m/type	#10 awg
	Tomatype	#12 awg
		= #16awg
	1 pack	Cable tie (8")
	1 box	Carbon brush
	1 set	CPE
		PPEs
		- Face mask
		- Face shield*
	25 pc	- Goggles
		- Gloves
		- Coverall suit
		- Safety shoes
	1 gallon	70% Alcohol*
	1 set	First-Aid Kit
	1 m	Shrinkable tube fuse for bulbs
	2 pc	Fusible link for battery
	2 μς	Bulbs (12 volts)
	2	Double contact
	2 pc/type	Olligic contact
		 Headlight bulb
		Peanut bulb
		Fuses
	F	■ 7.5 Amp
	5pcs/am	• 10 Amp
	р	= 15 Amp
		• 20 Amp
	2 00	= 30 Amp
	2 pc	Relays (30-60 Amp)12 volts Switches
	5 pc/type	Toggle switch (6 terminal)
	"	 Push pull switch
		 Push button switch
	50 pc	Eye terminal
	50 pc	Female terminal
	50 pc	Male terminal
	Note: Acce	ss to and use of equipment/facilities can
		d through cooperative arrangements or
	MOA with other partner/companies. *these materials will be required during the pandemic as mandated by the existing guidelines issued by the government in line with protection	
1		
	against viru	us and other infectious diseases for
	trainees an	u uamers
	1	
1	1	

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

Amendments

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 (ELECTRICAL REPAIR) NC II

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 onvehicle servicing is performed in the workshop.

SPACE REQUIREMENT	SIZE IN METERS	AREA IN SQ. METERS	GRAND TOTAL AREA IN SQ. METERS
A. Building (permanent)			130.00
Lecture Room	5x6	30	30.00
Laboratory/Work shop Area		2 per student	50.00
Tool room & S/M storage area		20	20.00
Learning resource area	5x4	20	20.00
Wash area/comfort room (male & female)		10	10.00
TOTAL			130.00

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

3.6 Trainer's Qualification

AUTOMOTIVE SERVICING - NC II

- 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

AUTOMOTIVE SERVICING (ELECTRICALREPAIR) NC II

NEW TRAINERS

- Holder of National TVET Trainers Certificate (NTTC) Level 1 in Automotive Servicing (Electrical Repair) NC II
- Must have at least 1-year industry experience in automotive servicing for the last 3 years

EXISTING TRAINERS

- Holder of National TVET Trainers Certificate (NTTC) Level 1 in Automotive Servicing (Electrical Repair) NC II
- Must have industry immersion of 40 hours annually (industry training which includes

Exis	sting Promulgated Training Regulation (Board Resolution No. 2013-11)	Amendments
3.7 In	nstitutional Assessment	structured training program inclusive of hands-on activities and observation in a workshop, and training certificates with number of hours)
		Institutional Assessment is gothering of
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.		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.
SECT	ION 4. National Assessment and Certific	ation Arrangements
4.1.	To attain the National Qualification of Automotive Servicing NC II, the candidate must demonstrate competence in all the units listed in Section 1. Successful candidates shall be awarded a National Certificate signed by the TESDA Director General.	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.
4.2.1	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. Service Engine Component	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. 4.1. NATIONAL ASSESSMENT AND CERTIFICATION ARRANGEMENTS
4.2.2	Service Engine Mechanical Components Service Automotive Electrical Components Service Automotive Battery Service Ignition System Test and Repair Wiring/Lighting System	4.1.1 A National Certificate (NC) is issued when a candidate has demonstrated competence on all units of competency in a qualification with a promulgated Training Regulations.
4.2.3	Service Starting System Service Charging System Service Underchassis Components Perform Underchassis Preventive Maintenance Service Steering System Service Brake System	4.1.2 A Certificate of Competency (COC) is issued by the Authority to individuals who were assessed as competent in a single unit or cluster of related units of competency. COC1: SERVICE AUTOMOTIVE
4.2.4	Service Suspension System Service Powertrain Components Service Clutch System Service Differential and Front Axle	MANUAL AIR- CONDITIONING SYSTEM Service manual air-conditioner system Diagnose and repair manual air-conditioner system

Existing Promulated Training Population	
Existing Promulgated Training Regulation (Board Resolution No. 2013-11)	Amendments
Overhaul Manual Transmission Successful candidates shall be awarded	 Repair manual air-conditioner compressor magnetic clutch
Certificates of Competency (COCs) 4.3. Accumulation and submission of all	COC2: SERVICE AUTOMOTIVE ELECTRICAL SYSTEM
COCs acquired for the relevant units of competency comprising a qualification,	Diagnose and repair ignition system
an individual shall be issued the corresponding National Certificate.	 Diagnose and repair starting system Diagnose and repair charging
 Assessment shall focus on the core units of competency. The basic and common 	system • Diagnose and repair body
units shall be integrated or assessed concurrently with the core units.	electrical system
4.5. The following are qualified to apply for assessment and certification:	4.1.3 Upon accumulation of the COCs acquired, an individual shall be issued the corresponding National Certificate
4.5.1 Graduates of formal, non-formal and informal including enterprise-based	for the Qualification.
training programs 4.5.2 Experienced Workers (wage employed or self-employed)	4.1.4 Individuals wanting to be certified will have to be assessed in accordance with the requirements identified in the
4.6. The guidelines on assessment and	relevant unit/s of competency.
certification are discussed in detail in the Procedures Manual on Assessment and Certification and Guidelines on the	4.1.5 Current holders of National Certificate (NC) in AUTOMOTIVE SERVICING
Implementation of the Philippine TVET Qualification and Certification System	NC II shall have their certificates renewed and converted to the
(PTQCS).	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.
	4.1.6 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
	The or site must be

Existing Promulgated Training Regulation (Board Resolution No. 2013-11)	Amendments
	a holder of National Certificate in the amended Automotive Servicing NC I.
	4.1.7 Current holders of NTTC Level I in AUTOMOTIVE SERVICING NCII shall have their NCII 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.
	4.1.8 The industry shall determine assessment and certification requirements for each qualification with promulgated Training Regulations. It includes the following:
	a. Entry requirements for candidates b. Evidence gathering methods c. Qualification requirements of competency assessors d. Specific assessment and certification arrangements as identified by industry
	4.1.9 Recognition of Prior Learning (RPL). Candidates who have gained competencies through informal training, previous work or life experiences may apply for recognition in a particular qualification through a recognition/assessment process.
	4.1.10 A candidate who fails the assessment for two (2) consecutive times shall be advised to go through a refresher course before taking another assessment.
	4.2. COMPETENCY ASSESSMENT REQUISITE
	4.2.1Self-Assessment Guide. The self- assessment guide (SAG) is

Existing Promulgated Training Regulation (Board Resolution No. 2013-11)	Amendments
	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.
	This document can: a. Identify the candidate's skills and knowledge b. Highlight gaps in candidate's skills and knowledge c. Provide critical guidance to the assessor and candidate on the evidence that need to be presented d. Assist the candidate to identify key areas in which practice is needed or additional information or skills that should be gained prior to assessment
	4.2.2Accredited 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.
	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.