

Motorcycle/Small Engine NC II

Course Description

This course is designed to enhance the knowledge, skills and attitudes of an individual in the field of motorcycle/small engine servicing in accordance with industry standards. It covers core competencies such as: service engine system; service electrical system; service chassis and overhaul motorcycle engine.

Nominal Duration

• Basic Competencies	68 hrs.
• Common Competencies	88 hrs.
• Core Competencies	564 hrs.
• Institutional Assessment	16 hrs.
• Supervised Work Based Training	320 hrs.

TOTAL 1,056 hrs.

A person who has achieved this qualification is competent to be:

**Motorcycle/Small Engine Mechanic
Small Engine Mechanic**

TRAINEE ENTRY REQUIREMENTS:

- Can communicate both orally and in writing;
- Can perform basic mathematical computations
- At least Senior High School (Grade 11) level;
- At least holder of Student Permit or LTO license (Restriction Code 1)
- Must undergo Career Profiling and Trainability Evaluation

TWC Training is guided by the ten (10) basic principles of Competency-Based Training (CBT) delivery.

1. The training is based on curriculum developed from the competency standards;
2. Learning is modular in its structure;
3. Training delivery is individualized and self-paced;
4. Training is based on work that must be performed;
5. Training materials are directly related to the competency standards and the curriculum modules;
6. Assessment is based in the collection of evidence of the performance of work to the industry required standard;
7. Training is based on both on and off-the-job components;
8. Allows for recognition of prior learning (RPL) or current competencies;
9. Training allows for multiple entry and exit; and
10. Approved training programs are Nationally Accredited

Course Structure

BASIC COMPETENCIES

Unit of Competency	Module Title	Learning Outcomes	Nominal Duration
• Participate in workplace communications	• Participating in workplace communications	<ul style="list-style-type: none"> • Obtain and convey work-place information • Participate in workplace meetings and discussions applying gender-fair language • Complete relevant work-related documents • Follow routine spoken messages • Perform workplace duties following written notices 	20 hrs
• Work in a team environment	• Observing gender sensitivity in the workplace	<ul style="list-style-type: none"> • Discuss the differences between sex and gender • Discuss gender identity and sexual orientation • Analyze the different manifestations of gender inequality in TVET, in society and in enterprises • Discuss gender and rights based approach to sexual and reproductive health including HIV-AIDS awareness and prevention 	12 hrs
	• Working in a team environment	<ul style="list-style-type: none"> • Describe team role and scope • Identify own role and responsibility within team • Work as team member • Develop effective workplace relationship including personal values and beliefs related to gender • Contribute to work group activities 	4 hrs
• Practice career professionalism	• Demonstrating work values and gender sensitivity	<ul style="list-style-type: none"> • Describe the purpose of work/enterprise • Identify and deal with ethical problems • Apply work/entrepreneurship values and gender/ethics sensitivity • Maintain integrity of conduct in the workplace 	4 hrs
	• Practicing career professionalism	<ul style="list-style-type: none"> • Integrate gender perspectives with personal and organizational goals • Set and meet work priorities • Maintain professional growth and development 	4 hrs

Course Structure

BASIC COMPETENCIES

Unit of Competency	Module Title	Learning Outcomes	Nominal Duration
• Practice occupational health and safety procedures	• Practicing occupational health and safety procedures	<ul style="list-style-type: none"> • Identify hazards and risks including those from climate change • Evaluate hazards and risks including those from climate change • Control hazards and risks including those from climate change • Maintain occupational health and safety awareness including women's issues/ concerns relative to OSH 	24 hrs

COMMON COMPETENCIES

Unit of Competency	Module Title	Learning Outcomes	Nominal Duration
• Apply appropriate sealant/ adhesive	• Applying appropriate sealant/ adhesive	<ul style="list-style-type: none"> • Identify appropriate sealant/ adhesive • Prepare surface for sealant/ adhesive • Apply sealant/adhesive evenly • Store/dispose of sealant/ adhesive 	4 hrs
• Move and position vehicle	• Moving and positioning vehicle	<ul style="list-style-type: none"> • Prepare vehicle for driving • Move and position vehicle • Check the vehicle 	5 hrs
• Perform mensuration and calculation	• Performing mensuration and calculation	<ul style="list-style-type: none"> • Select measuring instruments • Carry out measurements and calculation • Maintain measuring instruments 	29 hrs
• Read, interpret and apply specification and manuals	• Reading, interpreting and applying sepecification and manuals	<ul style="list-style-type: none"> • Identify and access manual/ specification • Interpret manuals • Apply information in manual • Store manuals 	4 hrs
• Use and apply lubricants/ coolants	• Using and applying lubricants/ coolants	<ul style="list-style-type: none"> • Identify types of lubricants/ coolant • Use and apply lubricants/ coolant • Perform housekeeping activities 	3 hrs
• Perform shop maintenance	• Performing shop maintenance	<ul style="list-style-type: none"> • Inspect/clean tools and work area • Store/arrange tools and shop equipment • Dispose wastes/used lubricants • Report damage tools/equipment 	3 hrs

Course Structure

COMMON COMPETENCIES

Unit of Competency	Module Title	Learning Outcomes	Nominal Duration
• Prepare job estimates/costing	• Preparing job estimates/costing	• Identify nature/scope of work • Prepare and present estimate	4 hrs
• Observe quality systems	• Observing quality systems	• Conduct final quality check on completed work/orders • Report on the quality of processes and work outcomes • Implement improvements to work processes	8 hrs
• Perform periodic maintenance	• Performing periodic maintenance	• Confirm and troubleshoot items scheduled for maintenance • Insert, clean and adjust items scheduled for maintenance • Lubricate with oil or grease items scheduled for maintenance • Replace items scheduled for maintenance • Tighten bolts and nuts scheduled for maintenance	28 hrs

Course Structure

CORE COMPETENCIES

Unit of Competency	Module Title	Learning Outcomes	Nominal Duration
• Service motorcycle/small engine system	• Servicing motorcycle/small engine system	• Service fuel system • Service intake and exhaust system • Service lubrication system • Service cooling system • Service transmission and clutch system (for MSE only) • Clean up work area	120 hrs
• Service electrical system	• Servicing electrical system	• Confirm and troubleshoot electrical system • Disassemble/assemble electrical components • Final inspection of electrical system • Clean up work area	70 hrs
• Service Chassis	• Servicing chassis	• Service steering and suspension • Service final drive system • Service brake system • Service wheels and tires • Clean up work area	130 hrs
• Overhaul motorcycle/small engine	• Overhauling motorcycle/small engine	• Remove engine from the unit • Disassemble engine • Assemble engine (parts and components) • Re-install engine to frame • Test engine performance • Clean up work area	244 hrs



TESDA Women's Center

VISION

"TESDA Women's Center is the lead TVET Institution of excellence in empowering Filipino women."

MISSION

"As the lead TVET Institution of excellence in women empowerment, TESDA Women's Center advocates and provides programs and services geared towards quality-assured, inclusive and gender-fair TVET."

MOTORCYCLE/SMALL ENGINE SERVICING NC II



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