

1. Title	Repair and maintain electrical products
2. Code	EMELOR211A
3. Range	Carry out examinations and tests on faulty electrical products to detect the faults and repair and maintain them at customer service center or electrical appliance repair workshops.
4. Level	2
5. Credit	9
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Understand functions and operational performance characteristics of various kinds of electrical products</p> <ul style="list-style-type: none"> ◆ Understand the functions, controlling methods and operational performance characteristics of various kinds of electrical products ◆ Understand the mechanical structure, circuit principle and regulations of various kinds of electrical products such as electric cooker, oven, water heater, portable power drill, jigsaw and lighting appliances ◆ Understand the functions of popular hand tools and instruments ◆ Understand the methods of repairing and maintaining various kinds of electrical products <p>6.2 Repair and maintain electrical products</p> <ul style="list-style-type: none"> ◆ Analyze the faults of electrical products such as: <ul style="list-style-type: none"> • Difficulty in starting • Abnormal turning speed • Noise during operation • Overheat of electrical products • Burnt smell • Smoke • Not functioning ◆ Employ visual inspection, insulation resistance test, resistance test, etc. and apply the working principles of electrical products to detect the faults of electrical products ◆ Carry out maintenance for various kinds of electrical products, including: <ul style="list-style-type: none"> • Lubricating the turning parts • Cleaning the filters regularly ◆ Select appropriate hand tools to disassemble components of electrical products ◆ Follow the circuit diagrams and manuals and use instruments and various measuring methods to detect the mechanical or electrical faults of electrical products ◆ Troubleshoot and replace damaged parts ◆ Reassemble and perform tests before and after power on

7. Assessment Criteria	The integrated outcome requirement of this unit of competency is: (i) Capable to conduct inspection, testing, repair, maintenance, troubleshooting, parts replacement and testing for electrical products according to their functions and operational performance characteristics.
8. Remarks	