

1. Title	Inspect, test and commission high voltage power distribution or generation facilities and devices		
2. Code	EMELIT303A		
3. Range	Applicable to electrical installation work. Use basic inspection tools and testing instruments to inspect, test and commission high voltage power distribution facilities and devices, and record the testing data to judge their effectiveness.		
4. Level	3		
5. Credit	6		
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Understand the using methods of basic inspection tools and testing instruments</p> <ul style="list-style-type: none"> ◆ Understand the methods of using basic inspection tools and carry out inspection for high voltage power distribution installations, such as torque wrench, level gauge, levelling mirror, hanging cone, ruler, etc. ◆ Understand the methods of using basic testing instruments and carry out testing and commissioning for high voltage distribution installations, such as insulation resistance tester, AC and DC high voltage withstand tester, DC vacuum tube checker, primary and secondary injection test instruments, insulating oil high voltage withstand tester, high voltage capacitance loss test, etc. <p>6.2 Inspect, test and commission high voltage power distribution or generation facilities and devices</p> <ul style="list-style-type: none"> ◆ Master the methods of operating various kinds of high voltage distribution or generation facilities and devices including high voltage distribution switches, transformers, overhead lines, cables, electric motors, capacitors, generators, protection device, protection and control circuits, etc. ◆ Master the manufacturers' methods and procedures of inspecting, testing and commissioning high voltage power distribution or generation installations, and relevant standards ◆ Inspect, test and commission high voltage power distribution or generation facilities and devices such as high voltage distribution switches, transformers, overhead lines, cables, electric motors, capacitors, generators, protection device, protection and control circuits, earthing systems, lightning protection system, etc. ◆ Record the testing data systematically ◆ Understand various standards for testing, summarize the testing data and judge the effectiveness 		

	<p>6.3 Professionalism in inspecting, testing and commissioning high voltage power distribution or generation installations</p> <p>♦ Follow the regulations and safety guidelines for the industry to ensure that high voltage power distribution or generation installations can be used safely</p>
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> (i) Capable to understand the methods of using basic inspection tools and testing instruments; (ii) Capable to perform inspection, testing and commissioning on specified high voltage power distribution or generation facilities and devices, and record the testing data systematically; and (iii) Capable to master various standards for testing, summarize the testing data and judge the effectiveness.
8. Remarks	