

VU22671 Use test instruments in the electrotechnology industry

Element/Performance criteria	Test bank	Quizzes	Case Study	Worksheets	Interactives	Animations	Youtube Playlist	Prac Manual
1 Prepare test instrument to perform basic electrical test								
1.1 Testing requirement is determined and the appropriate test instrument is selected for the task	1,2,3,4	1, 2, 10, 11, 12, 13	3,5,6	1.1.1,1.1.2	1,2,3		1,2,3,7	1,2
1.2 Handling and operating procedures for the test equipment are confirmed before use	5	3, 4	4	1.2.1	1,2,3		1,3,7	1,2
1.3 Test instrument is tested for serviceability according to manufacturer requirements	6	14, 19, 20		1.3.1, 1.3.2				1,2
1.4 Safety requirements and safe operating procedures for the use of the test instrument are accessed and followed	7,8,9	15, 16, 17, 18	1,2,7	1.4.1, 1.4.2				1,2
2. Conduct electrical testing task								1,2
2.1 Test instrument is connected to the ELV component or circuit in accordance with manufacturer requirements	10	12, 15, 19		2.1.1,			3,6	1,2
2.2 Testing task is conducted in accordance to workplace and safety requirements	11	16, 17, 18	8	2.2.1, 2.2.2			3,4,6	1,2
2.3 Test result/reading is interpreted to determine the condition or serviceability of the electrical component or circuit being tested	12,13,14	5, 6, 21, 22, 23		2.3.1, 2.3.1			1 3,4,5,6	1,2
3. Complete electrical testing task								1,2
3.1 Test results are recorded in accordance with workplace procedure	15	24		3.1.1				1,2
3.2 Test equipment is disconnected, cleaned, checked for damage and stored in accordance workplace procedure	16	7	9	3.2.1				1,2
3.3 Damaged, faulty or inaccurate electrical test equipment is tagged and isolated for repair or replacement in accordance with workplace procedure	17	8, 9		3.3.1				1,2
Required Skills								
– set up and use a range of analog and digital test instruments commonly applied in the electrotechnology industry to test ELV components and circuits				1.1.1,1.1.2				
– demonstrate safe working habits when testing ELV components and circuits				2.2.1, 2.2.2				
– read and interpret operating instructions for electrical testing instruments							1	
– read and interpret test results to determine serviceability of ELV components and circuits								
Required Knowledge								
– test instruments commonly used to test ELV components and circuits	1,2,3,4,6	1, 2, 3, 4, 5, 6, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24						
– WHS/OHS requirements applicable when working with electrical components and circuits		4, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24		3.2.1				

- interpretation of analog and digital scales and dials of test instruments		1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 19, 20, 21, 22, 23, 24						
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