



Australian Government

UEEEL0077 Evaluate and report on the performance of LV machines

Release: 1

UEEEL0077 Evaluate and report on the performance of LV machines

Modification History

Release 1. This is the first release of this unit of competency in the Electrotechnology Training Package.

Application

This unit covers determining correct operation of single and three phase machines, evaluating and reporting on their performance.

It includes safe working practices, machine connections circuit arrangements, issues related to machine operation, characteristics and protection and solutions to machine problems derived from calculated and measured parameters.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

UEEEL0020 Solve problems in low voltage a.c. circuits

UEEEL0021 Solve problems in magnetic and electromagnetic devices

Competency Field

Electrical

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to evaluate and report on the performance of LV

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

1.1

Work, health and safety (WHS) / occupational health and safety (OHS) risk control measures are identified and applied

machines

	1.2	Machines to be evaluated, and scope of works to be undertaken are identified and confirmed
	1.3	Tools, equipment and testing devices needed to carry out the work are obtained and checked for correct operation and safety
2 Evaluate single and three phase low voltage machines	2.1	Correct machine is identified for a specified range of applications
	2.2	Machine performance is evaluated from measured and calculated values as they apply to single and three-phase low voltage machines and results are recorded
	2.3	Problems are diagnosed, recorded, and solutions are identified
3 Complete work and document problem solving activities.	3.1	Results of evaluation and recommendations are reported
	3.2	Justification for identified solutions is reported
	3.3	Work completion is documented, and an appropriate person notified

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions may be found in the Electrotechnology Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This is a new unit.

Links

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b8a8f136-5421-4ce1-92e0-2b50341431b6>