

1. Module details

Module name

Install and terminate wiring systems (*Power and control – Extra-low Voltage*) Work performance

Suggested Trainer /Assessor structured assessment time

The time taken to complete this module will vary depending on the opportunities the learner is given to develop their skills and the method used to obtain evidence of work performance used to attribute competence. It is expected that a trainer/assessor would require approximately 4 hours to evaluate evidence of competency.

Module code

NEWP105i.3

Discipline code

2. Module purpose

This module provides methods and criteria for gathering evidence that shows a person has achieved the levels of performance specified in Unit NES105iA Install and terminate wiring systems (power and control – Extra-low Voltage)

3. Prerequisite modules

This module shall be undertaken in conjunction with modules that provide the knowledge and skills underpinning performance.

4. Relationship to competency standards

This module supports Unit NES105iA Install and terminate wiring systems (power and control – Extra-low Voltage) of the Electrotechnology Competency Standard

5. Assessment strategy

Gathering evidence of performance directly in the workplace

Evidence of competent performance shall be gathered by one or more methods described below.

In this method a qualified assessor shall gather the evidence through direct observation of relevant work activities on multiple occasions and situations.

Note: Direct assessment of work activities may not be acceptable in some work places as it may be disruptive to productivity and requires further safety measures.

Gathering evidence of performance in a simulated work environment

In this method the simulated work environment shall include equipment relevant to the competencies to be assessed and arranged in a manner similar to a real work place. Assessment activities shall be as close as practicable to real work situations and include real work decisions by the learner.

Gathering evidence of performance, from indicators in relevant work experience

In this method evidence shall be gathered from a log of work experience indicators, relevant to the unit(s) of competency being assessed. The log shall be maintained by the learner and entries verified by a qualified responsible person. Such evidence shall be used to form a profile of competency development. An assessor, to ensure that the learner is being given sufficient exposure to the range of work activities and to determine when a final decision about competency can be made, shall periodically review the profile.

Assessment criteria

In judging work performance it is essential that evidence regarding the following aspects of competency be considered.

- **Performance is autonomous and to requirements and** occurs on at least 2 occasions for each of the following elements:
 - Plan and prepare for installation
 - Install wiring systems
 - Inspect and notify completion of work
- and at least 4 of the following apparatus and associated circuits:

Unenclosed support (eg clips, saddles, hangers and ties); Non-metallic conduit; Metallic conduit; Trunking; Cable tray/ladder; Underground systems; Aerial; Catenary support.

At least three of the four-cable protection and support systems must be appropriately demonstrated on-the-job in real work activities. One or more cable protection and support systems may then be achieved by the combined effect of relevant off-the-job training and the skill transfer from prior satisfactory completion of the other three systems.
- **Applying techniques, procedures, information and resources relevant to performance.**

In making a final judgement about a learner's competence the Registered Training Organisation (RTO) must make sure that such judgement is made on **sufficient evidence** being presented. This evidence should be from a number of quantitative and qualitative events and over a period showing the development of competent work performance by the learner.

Resource requirements

Resources should be sufficient for participants to carry out activities, from which evidence may be gathered, on an individual basis. This will include access to tools, equipment, standards and other documents that are necessary to perform the activities required.

Assessment should take into account variations between particular industry sectors and different enterprises. For example equipment used in underground coal mining will be different in some respects from that used in a manufacturing facility.

Where this module is used in an approved Traineeship or Apprenticeship program learners should be advised to obtain, where available, respective EEQSBA¹ *User Guides* (these outline in detail what training and work performance the learner is required to undertake for the program).

Occupational health and safety requirements

A safe and healthy environment will be provided for participants and assessors as well as safety procedures with regard to assessment activity.

¹ EEQSBA - ElectroComms and EnergyUtilities Qualifications Standards Body of Australia Ltd