

1. Module details

Module name

Maintain and Repair Digital Televisions - *Electronics* work performance

Module duration

The time taken to complete this module will vary depending on the opportunities in the work place for student's to develop their skills and the method used to obtain evidence of competent performance. Where evidence is obtained through formalised assessment event(s) under simulated conditions it would normally take a student 4 hours to successfully complete the module.

Module code

NEWP220C A

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 "NES220 C A - Maintain and repair digital televisions - *Electronics*."

3. Prerequisites

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 "NES220 C A - Maintain and repair digital televisions - *Electronics*" of the Electrotechnology Competency Standard

5. Assessment strategy

Assessment methods

Evidence of competent performance may be gathered from real work activities, which are recorded by the use of work reports, logbooks, profiles or portfolios. The student's immediate supervisor shall confirm the accuracy of the evidence the student presents in this way. The supervisor must be competent in the area.

Conditions of assessment

Evidence of competent performance can be gathered from the workplace or a simulated work environment. A simulated environment would necessarily include equipment and wiring systems similar to those encountered in a real workplace. As well as the generic aspects of competency, assessment should take into account variations between particular industry sectors and different enterprises. For example equipment used in the television servicing industry will be different in some respects to that used in the communication industry.

Assessment criteria

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

Performance is autonomous and to workplace requirements and occurs on at least two (2) occasions for each of the following elements:

- Plan and prepare for maintenance
- Maintain and repair digital televisions
- Inspect and notify completion of work

on at least two (2) of the following video/entertainment systems:

- Integrated receiver/decoder; digital television receiver

and, at least six (6) of the following video/entertainment system devices:

- Digital and analogue signal field strength meters; logic probes; bit error rate testers; remote control devices; analogue television receivers; cathode ray oscilloscopes; logic probes; digital voltmeters; logic pulsers; current tracers.

The eight video/entertainment system apparatus and associated circuits must be appropriately demonstrated in a work place environment/industrial situations and, where simulation is used as an alternative approach it must be equivalent across the range at the same level of complexity.

Applying safety procedures, techniques, information, **and** resources relevant **to performance**.

Judgement should be made on evidence gathered from a number of events and over a period of time showing the development of competent work performance.

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.

Occupational health and safety requirements

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