Assessment Requirements for ICTCMP501 Undertake radio communications site audit

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 2.0.

Performance Evidence

Evidence of ability to:

- determine the need for a site audit and gain access approvals
- conduct radio communications site audit for at least three sites with differing licensing requirements
- conduct transmission and radio frequency (RF) tests
- monitor non-compliances to ensure actions completed
- document enforcement actions.

Note: If a specific volume or frequency is not stated, then evidence must be provided at least once.

Knowledge Evidence

To complete the unit requirements safely and effectively, the individual must:

- explain features and functions of test equipment including:
  - digital radio communications measuring equipment
  - modulation analyser
  - power meter
  - RF termination
  - spectrum analyser
- describe the features of licensing databases
- describe information required to prepare and conduct telecommunications audits
- explain legislation, licensing requirements for transmitters, codes of practice and other formal agreements that directly impact radio communications site audits
- give an overview of transmission lines, transmitter and receiver architecture and their impact on radio communications audits
- list required field measurements including:

- carrier frequency
- harmonics
- intermodulation distortion (IMD) products
- modulation
- RF power
- explain specific issues related to antenna installations and their impact on radio communications interference
- explain specific work health and safety (WHS) requirements that impact the conduct of radio communications audits, including:
  - use of equipment
  - use of RF protective equipment
  - other personal protective equipment
- explain types of adjustments that need to be made to audit procedures to meet requirements of particular sites and environmental conditions
- typical issues and challenges that occur in telecommunications site audit and how these may be addressed.

Assessment Conditions

Gather evidence to demonstrate consistent performance in conditions that are safe and replicate the workplace. Noise levels, production flow, interruptions and time variances must be typical of those experienced in the Telecommunications – Compliance field of work and include access to:

- sites on which audits may be conducted
- use of field measurement equipment currently used in industry
- relevant databases, licensing requirements and other site related documentation.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volume implementation guides are found in VETNet - https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2