



Australian Government

UEPOPS509 Manage quality control procedures

Release: 1

UEPOPS509 Manage quality control procedures

Modification History

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

Application

This unit involves the skills and knowledge required to manage quality control procedures.

Quality control is a process through which a workplace seeks to ensure significant variations in quality are kept to a minimum. Quality control in a power generation facility will typically focus on procedures intended to ensure that personnel, plant and equipment operate smoothly and efficiently.

Competency in this unit requires the ability to plan for quality control, manage quality control, manage records and audit quality control procedures. Individuals will, in general, work as an operator with responsibility for quality control, in a power generation facility.

Power generation plant operators are typically trained and authorised to isolate, prepare plant and issue permits to work.

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

Note: Workplace practice

The application of the skills and knowledge described in this unit may require a licence or training permit to practice in the workplace where work is carried out on gas and electrical installations. Additional conditions may apply under state and territory legislative and regulatory licensing requirements.

Pre-requisite Unit

There are no prerequisite units.

Competency Field

Operations

Unit Sector

Electricity generation

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Plan for quality control

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) legislative requirements, industry standards, codes of practice, manufacturers' specifications, environmental obligations and workplace procedures are applied and managed throughout quality control process
 - 1.2 Manufacturers' specifications and manuals are interpreted to meet quality control procedures as part of the Quality Management System
 - 1.3 Plant and equipment testing and inspecting programme is managed to determine conformance with manufacturers' specifications and quality control process and procedures
 - 1.4 Data is collected to determine cause of variations in quality control processes and procedures
 - 1.5 Quality control process improvement tools are used to identify and resolve quality control problems, in accordance with Quality Management System (QMS) requirements
 - 1.6 Quality process improvement techniques are used to manage work groups in the identification and resolution of quality control variances
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- 2.1 Monitoring equipment is checked and managed for correct calibration, and environmental conditions are reviewed and confirmed to ensure reliability and accuracy of test results
 - 2.2 Quality control process improvement measures are implemented and managed, in accordance with Quality Management System requirements and workplace procedures
 - 2.3 Deviation and fault data is managed, in accordance with workplace procedures and Quality Management System requirements

2 Monitor quality control

	2.4	Changes in quality performance are actioned, in accordance with quality control procedures
	2.5	Independent inspections, tests and audits are managed, in accordance with quality control procedures
	2.6	Quality improvement system is monitored and managed, in accordance with quality control procedures
3 Manage quality control records	3.1	Calibration records of test equipment is managed, in accordance with quality control procedures and Quality Management System requirements
	3.2	Recording of quality control procedure updates are managed, in accordance with Quality Management System requirements
4 Audit quality control procedures	4.1	Quality Management System (QMS) is audited, and results are evaluated, in accordance with quality control procedures
	4.2	Audit results are documented and report with recommendations is reviewed and confirmed with appropriate personnel, in accordance with quality control procedures

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 Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UEPOPS509B Manage quality control procedures.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=1715b9fa-e7bd-441c-bb8d-cf22c9c825a8>

Assessment Requirements for UEPOPS509 Manage quality control procedures

Modification History

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements, performance criteria and range of conditions on at least two separate occasions and includes:

- applying Work, Health and Safety (WHS)/Occupational Health and Safety (OHS) requirements including:
 - emergency procedures
 - risk control measures
 - safe working practices
- auditing quality control procedures
- communicating with personnel
- completing quality control documentation
- identifying quality control procedure variances
- implementing legislation, industry standards, codes of practice and regulations
- interpreting manufacturers' specifications and manuals
- managing quality control including procedures, processes and techniques
- organising quality control procedure audits, inspections and tests
- performing analysis of Quality Management System (QMS) and quality control procedures
- planning quality control

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements, performance criteria and range of conditions and includes knowledge of:

- data analysis of quality variances
- legislation, industry standards, codes of practice and regulations
- liaising with contractors
- manufacturers' specifications and manuals
- monitoring equipment, procedures and records
- plant and equipment, its location and operating parameters
- quality control procedures, processes and techniques

- Quality Management System (QMS)
- typical arrangements of power production plant
- WHS/OHS legislated requirements including:
 - emergency procedures
 - risk control measures
 - safe working practices
- workplace documentation
- workplace policies and procedures

Assessment Conditions

As a minimum, assessors must satisfy applicable regulatory requirements, which include requirements in the Standards for Registered Training Organisations current at the time of assessment.

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Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Assessment must occur in workplace operational situations. Where this is not appropriate, assessment must occur in simulated workplace operational situations that reflect workplace conditions.

Resources for assessment must include access to:

- a range of relevant exercises, case studies and/or other simulations
- relevant and appropriate materials, tools, equipment and personal protective equipment currently used in industry
- applicable documentation including workplace procedures, industry standards, equipment specifications, regulations, codes of practice and operation manuals.

Links

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