



Australian Government

UEPOPS120 Undertake operational commissioning and decommissioning

Release: 1

UEPOPS120 Undertake operational commissioning and decommissioning

Modification History

Release 1. This is the first release of this unit of competency in the UEP Electricity Supply Industry – Generation Sector Training Package Release 2.0.

Application

This unit involves the skills and knowledge required to undertake the commissioning and decommissioning of power generation plant and equipment.

The operator assists the functional commissioning process in which installed power generating plant is tested to verify it functions according to design specifications. Power generating plant that is shut down and dismantled is decommissioned. Commissioning and decommissioning of power generating plant does not include removal or return to service under normal or routine maintenance situations.

Competency in this unit requires the ability to plan and prepare for work, decommission plant or equipment, remove plant or equipment, recommission plant or equipment and complete work. Individuals will, in general, work as an operator, in a power generation facility.

Power generation plant operators are 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.

Pre-requisite Unit

There are no prerequisite units

Competency Field

Operations

Unit Sector

Electricity generation

Elements and Performance Criteria

ELEMENTS

PERFORMANCE CRITERIA

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

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| 1 Plan and prepare for work | 1.1 Work requirements are identified from relevant personnel and site inspection in accordance with workplace procedures |
| | 1.2 Work health and safety (WHS)/occupational health and safety (OHS) regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, environmental requirements and workplace procedures are identified, applied and monitored |
| | 1.3 Resources are obtained and inspected for compliance with work specification in accordance with workplace procedures |
| | 1.4 Plans, drawings and manuals are selected and used in accordance with workplace procedures |
| | 1.5 Size, type and quantity of materials or components are obtained and inspected in accordance with workplace procedures |
| | 1.6 Work is sequenced and prioritised in accordance with workplace procedures |
| | 1.7 Potential hazards are identified, and risk control measures are selected and implemented in accordance with workplace procedures |
| | 1.8 Work area is prepared in accordance with workplace procedures |
| 2 Decommission plant or equipment | 2.1 Isolations are confirmed in accordance with decommissioning plan and workplace procedures |
| | 2.2 Equipment or power generating plant is decommissioned in accordance with decommissioning plan and workplace procedures |
| | 2.3 Equipment or power generating plant is disconnected from energy or material sources in accordance with decommissioning plan and workplace procedures |
| 3 Remove plant or equipment | 3.1 Isolations are confirmed in accordance with workplace procedures |

- 3.2 Removal of power generating plant or equipment, or dismantling of major components, is carried out in accordance with decommissioning plan and workplace procedures
 - 3.3 Unused electrical conductors are isolated and terminated in accordance with decommissioning plan and workplace procedures
 - 3.4 Other sources of energy or materials are terminated and blanked in accordance with decommissioning plan and workplace procedures
- 4 Commission plant or equipment**
 - 4.1 Isolation of power generating plant is removed in accordance with workplace procedures
 - 4.2 Preoperational checks are carried out on power generating plant in accordance with manufacturers' recommendations and specifications, and workplace procedures
 - 4.3 Sequence for commissioning plant is established in accordance with workplace procedures
 - 4.4 Power generating plant is tested for operation in accordance with manufacturers' recommendations and specifications, and workplace procedures
 - 4.5 Power generating plant or equipment performance is monitored using methods and testing equipment in accordance with manufacturers' recommendations and specifications, and workplace procedures
 - 4.6 Data is collected and referenced, and variances are recorded in accordance with manufacturers' recommendations and specifications, and workplace procedures
 - 4.7 Power generating plant or equipment is adjusted using relevant techniques in accordance with manufacturers' recommendations and specifications, and workplace procedures
 - 4.8 Final inspection is undertaken, and performance data is collected in accordance with manufacturers' recommendations and specifications, and workplace procedures
- 5 Complete work**
 - 5.1 Work is completed and relevant personnel are notified in

accordance with workplace procedures

- 5.2 Work area is cleared of waste, cleaned, restored and secured in accordance with worksite procedures
- 5.3 Power generating plant, tools and equipment are maintained and is stored in accordance with workplace procedures
- 5.4 Work completion details are finalised in accordance with workplace 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 UEP Electricity Supply Industry – Generation Sector Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UEPOPS412 Operational commissioning and decommissioning.

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 UEPOPS120 Undertake operational commissioning and decommissioning

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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 and performance criteria on at least two separate occasions and include:

- analysing data
- applying work health and safety (WHS)/occupational health and safety (OHS) requirements, including:
 - emergency procedures
 - risk control measures
 - safe working practices
- commissioning plant or equipment
- communicating with personnel
- completing work
- decommissioning power generating plant and equipment
- identifying power generating plant and equipment
- implementing regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- interpreting manuals
- planning and preparing for work
- restarting power generating plant or equipment
- using testing and measuring equipment
- utilising isolation procedures
- utilising permit to work system
- working with decommissioning procedures for removing plant or equipment.

Knowledge Evidence

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

- arrangements of power production plant
- data analysis
- decommission and commission of power generating plant and equipment

- isolations processes
- manuals
- measurement and testing equipment
- permit to work system
- power generating plant and equipment, location and operating parameters
- regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- WHS/OHS requirements, including:
 - emergency procedures
 - risk control measures
 - safe working practices
- workplace documentation
- workplace policies and procedures.

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must occur in workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated workplace operational situations that replicate workplace conditions.

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.

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 (PPE) currently used in industry
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

Links

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