



Australian Government

UEPOPS007 Conduct chemical batching operations

Release: 1

UEPOPS007 Conduct chemical batching operations

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 conduct mixing of chemicals for the treatment of a primary substance.

A chemical that is needed in the workplace in a small amount (i.e. a speciality chemical) is usually made through using a batching process. Considerable care with all compounds and substances must be undertaken when conducting chemical batching operations due to toxicity.

Competency in this unit requires the ability to plan work, perform chemical batching and the completion of work. Individuals will, in general, work as an operator in a power generation facility.

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

Elements describe the essential outcomes.

1 Plan and prepare work

PERFORMANCE CRITERIA

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

- 1.1** Work requirements are identified and confirmed with relevant personnel in accordance with workplace procedures

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| | 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 | Potential hazards are identified, and risk control measures are selected in accordance with workplace procedures |
| | 1.4 | Resources, including safety data sheets (SDS) and personal protective equipment (PPE), are inspected and used in accordance with workplace procedures |
| 2 Perform chemical batching | 2.1 | Staff are notified on commencement and completion of chemical batching work in accordance with workplace procedures |
| | 2.2 | Chemical requirements for batching are calculated in accordance with job requirement and workplace procedures |
| | 2.3 | Correct chemical is added to tank or chemical batching plant in accordance with workplace procedures |
| | 2.4 | Demineralised water is added to chemical batch to correct level in accordance with workplace procedures |
| | 2.5 | Mixing device is operated in accordance with workplace procedures |
| | 2.6 | Worksite is left clean and safe to ensure personnel safety and power generating plant integrity in accordance with workplace procedures |
| 3 Complete documentation | 3.1 | Chemical batching problems are reported in accordance with workplace procedures |
| | 3.2 | Documentation is updated 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 UEPOPS245 Conduct chemical batching operations.

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 UEPOPS007 Conduct chemical batching operations

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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:

- applying work health and safety (WHS)/occupational health and safety (OHS) requirements, including:
 - emergency procedures
 - personal protective equipment (PPE)
 - risk control measures
 - safe working practices
- communicating with personnel
- completing documentation using recording procedures
- complying with regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- identifying power generating plant status using diagnostic and testing techniques
- organising resources
- performing chemical batching
- planning and preparing work
- preparing chemical batching plant and equipment for operation
- safely handling hazardous materials
- using risk mitigation processes such safety data sheets (SDS).

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
- chemical batching operations
- chemicals, uses and hazards
- power generating plant and equipment, location and operating parameters
- power generating plant status
- regulations, legislative requirements, codes of practice, manufacturers' recommendations and

- specifications, and environmental requirements
- risk mitigation processes, including SDS
- safe handling of hazardous materials
- types of chemicals, properties and precautions to be taken
- WHS/OHS requirements, including:
 - emergency procedures
 - risk control measures
 - safe working practices, including PPE
- 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 PPE currently used in industry
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

Links

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