



Australian Government

NWPIWS007 Detect and rectify faults with automated channel regulators

Release: 1

NWPIWS007 Detect and rectify faults with automated channel regulators

Modification History

Release 1. This is the first release of this unit of competency in the NWP National Water Training Package.

Application

This unit involves the skills and knowledge required to detect and rectify faults with automated channel regulators.

It includes determining problems with operating automated water regulating devices used in irrigation and stock and domestic supply systems. It also includes collecting data, finding and fixing problems and compiling operational reports.

This unit applies to those working as part of an irrigation delivery team with duties to maintain and rectify faults in automated regulating devices. Those undertaking this unit would work under appropriate supervision performing routine tasks in a familiar context.

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

Pre-requisite Unit

Not applicable.

Competency Field

Irrigation Water Supply

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare work

PERFORMANCE CRITERIA

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

1.1 Undertake risk assessment at worksite according to

- workplace procedures
- 1.2** Identify and access fault records from workplace systems
- 1.3** Interpret and categorise fault information according to workplace procedures
- 1.4** Schedule and prioritise actions for repair of faults
- 2 Rectify the faults of regulating devices**
 - 2.1** Use systems to assist in rectifying faults
 - 2.2** Inspect faulty device and determine problems and solutions
 - 2.3** Undertake regulator repairs to rectify faults according to workplace procedures and safety requirements
 - 2.4** Check operating conditions of the regulating device meet manufacturer specifications
- 3 Finalise work**
 - 3.1** Notify operational team of the state of repair work and operating conditions of regulating device
 - 3.2** Complete and file reports of repair according to workplace procedures
 - 3.3** Liaise with stakeholders according to 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 Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to NWPIRR023 Detect and rectify faults with automated channel regulator.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=26336bc0-04e5-49d9-8c31-46c49b6a0037>

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=26336bc0-04e5-49d9-8c31-46c49b6a0037>

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=26336bc0-04e5-49d9-8c31-46c49b6a0037>

Assessment Requirements for NWPIWS007 Detect and rectify faults with automated channel regulators

Modification History

Release 1. This is the first release of this unit of competency in the NWP National Water Training Package.

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 one occasion and includes:

- completing workplace reports and documentation
- conducting worksite inspections
- maintaining components
- identifying faults, changes and failure indicators
- interpreting manufacturer requirements for rectifying and repairing faults
- liaising with stakeholders
- undertaking a job safety and environmental analysis

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 includes knowledge of:

- automated regulating device manufacturer guidelines and user manuals
- organisational communication systems
- problems including:
 - batteries
 - blockages
 - cabling
 - faulty sensors
 - low voltage electrical wiring
 - solar panels
- relevant legislation, regulations and workplace procedures
- risk factors and potential hazards
- system operating parameters
- stakeholders including:
 - contractors
 - customers
 - internal employees

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:

- relevant and appropriate materials, tools, equipment and personal protective equipment currently used in industry
- applicable documentation including legislation, regulations, codes of practice, workplace procedures and operation manuals.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=26336bc0-04e5-49d9-8c31-46c49b6a0037>

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=26336bc0-04e5-49d9-8c31-46c49b6a0037>

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=26336bc0-04e5-49d9-8c31-46c49b6a0037>