



Australian Government

RIIPRO302D Perform process control room operations

Release: 2

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Modification History

Release	Comment
1	This unit replaces RIIPRO302A Perform process control room operations
2	Required frequency and volume of evidence amended in Performance evidence. Substantial amendments made in Assessment Conditions field, including: references to Industry Sectors, assessor and subject matter expert experience requirements, how assessment should be conducted and what it should confirm.

Application

This unit develops a participant's skills and knowledge required to perform process control room operations in Coal and Metalliferous mining and Extractive.

This unit is appropriate for those working in operational roles

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

Unit Sector

Coal mining

Extractive

Metalliferous mining

Elements and Performance Criteria

1. Plan and prepare for process control room operations	1.1 Access, interpret and apply process control room operations documentation and ensure the work activity is compliant 1.2 Obtain, read, interpret, clarify and confirm work requirements 1.3 Identify and address potential risks, hazards and environmental issues, and implement control measures 1.4 Select and wear correct personal protective equipment appropriate for work activities 1.5 Establish and maintain communications with other personnel using approved communication methods 1.6 Check maintenance and operating records and document
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	outstanding maintenance inspections and identified defects 1.7 Obtain and interpret emergency procedures, and be prepared for fire/accident/emergency
2. Perform start-up operations	2.1 Confirm plant readiness for operation 2.2 Complete computer systems and equipment pre-start checks 2.3 Carry out start-up checks and procedures according to plant configurations and system requirements 2.4 Start-up individual plant and process and entire system 2.5 Build production rate steadily with no surges and lulls 2.6 Stabilise plant operation to meet process output and quality requirements
3. Monitor and manage operations	3.1 Monitor and manage processing utilising appropriate indicators for safe and efficient operations 3.2 Read and interpret data from equipment indicators, programmable logic and SCADA, and take action where required to maintain operations according to operating parameters 3.3 Identify, manage and report faults to appropriate personnel in a timely manner 3.4 Coordinate support personnel and ensure continuity of process 3.5 Manage material flow within specified parameters 3.6 Respond to alarms , investigate conditions, and take corrective actions 3.7 Complete the work plan 3.8 Maintain, process and pass on written records and reports
4. Conduct housekeeping activities	4.1 Clear work area and dispose of or recycle materials 4.2 Clean and maintain condition of equipment, ensure suitability for use, and address/report issues 4.3 Manage/report hazards, and maintain a safe working environment 4.4 Process written records
5. Shutdown in sequence and/or isolate plant and equipment	5.1 Shutdown/isolate plant and equipment based on process or safety requirements 5.2 Perform post shutdown/isolation checks

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit. Further information is available in the Resources and Infrastructure Industry Training Package Companion Volume.

Unit Mapping Information

RIIPRO302A Perform process control room operations

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=88a61002-9a21-4386-aaf8-69c76e675272>

Assessment Requirements for RIIPRO302D Perform process control room operations

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Performance Evidence

Evidence is required to be collected that demonstrates a candidate's competency in this unit. Evidence must be relevant to the roles within this sector's work operations and satisfy all of the requirements of the performance criteria of this unit and include evidence that the candidate:

- locates and applies applicable documentation, policies and procedures
- implements the requirements, procedures and techniques for the safe, effective and efficient performing of process control room operations including:
 - conducting prestart, start up and shut-down operations
 - applying diagnostic and problem solving techniques
 - using alarm/monitoring and control systems
 - applying hazard identification and management procedures
 - accessing, reading and interpreting reports
 - using computer and database management systems
 - accessing, reading and interpreting plans, reports, specifications
 - conducting operations monitoring
 - identifying and reporting defects
- works effectively with others to undertake control room operations that meet all of the required outcomes including:
 - using a range of communications techniques and equipment to convey information to others
 - complying with written and verbal reporting requirements and procedures
 - clarifying work requirements and instructions
 - inspecting and preparing work area and equipment

- demonstrates completion of performing process control room operations that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - completing work plan
 - carry out pre-start, start up and shutdown procedures
 - start up individual plant, process and entire system
 - stabilise plant operations
 - coordinate support personnel
 - manage material flow
 - identify and respond to alarms and signals

Knowledge Evidence

The candidate must demonstrate knowledge in performing process control room operations through:

- addressing contaminant issues
- equipment processes, limitations and operating parameters
- operating distribution control system
- hazardous goods procedures and consequences of spills
- repair requirements
- using metallurgical and technical data (basic)
- optimal plant capacity and throughput
- physical layout of plant

Assessment Conditions

- An assessor of this unit must satisfy the requirements of the NVR/AQTF or their successors; and Industry regulations for certification and licensing; and,
- this unit must be assessed in the context of this sector's work environment; and,
- this unit must be assessed in compliance with relevant legislation/regulation and using policies, procedures, processes and operational manuals directly related to the industry sector for which it is being assessed; and,
- assessment may be conducted in conjunction with the assessment of other Units of Competency; and,
- assessment must confirm consistent performance can be applied in a range of relevant workplace circumstances; and,
- assessors must demonstrate the performance evidence, and knowledge evidence as outlined in this Unit of Competency, and through the minimum years of current* work experience specified below in an Industry sector relevant to the outcomes of the unit; or,

- where the assessor does not meet experience requirements a co-assessment or partnership arrangement must exist between the qualified assessor and an Industry subject matter expert. The Industry subject matter expert should hold the unit being assessed (or an equivalent unit) and/or demonstrate equivalence of skills and knowledge at the unit level. An Industry technical expert must also demonstrate skills and knowledge from the minimum years of current work experience specified below in the Industry sector, including time spent in roles related to the unit being assessed; and,
- assessor and Industry subject matter expert requirements differ depending on the Australian Qualifications Framework Level (AQF) of the qualification being assessed and/or Industry Sector as follows:

Industry sector	AQF** Level	Required assessor or Industry subject matter expert experience
Drilling, Metalliferous Mining, Coal Mining, Extractive (Quarrying) and Civil Construction	1	1 Year
	2	2 Years
Drilling, Coal Mining and Extractive (Quarrying)	3-6	3 Years
Metalliferous Mining and Civil Construction	3-6	5 Years
Other sectors	Where this Unit is being assessed outside of the Resources and Infrastructure Sectors assessor and/or Industry subject matter expert experience should be in-line with industry standards for the sector in which it is being assessed and where no Industry standard is specified should comply with any relevant regulation.	

*Assessors can demonstrate current work experience through employment within Industry in a role relevant to the outcomes of the Unit; or, for external assessors this can be demonstrated through exposure to Industry by conducting frequent site assessments across various locations.

**Where a unit is being delivered outside of a Qualification the first numeric character in the Unit code should be considered to indicate the AQF level

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