



Australian Government

RIIPRO203D Operate programmable logic control systems

Release: 2

RIIPRO203D Operate programmable logic control systems

Modification History

Release	Comment
1	This unit replaces RIIPRO203A Operate programmable logic control systems
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 operate programmable logic control (PLC) systems in 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

Extractive

Elements and Performance Criteria

1. Prepare for programmable logic control systems operations	1.1 Access, interpret and apply programmable logic control systems documentation and ensure the work activity is compliant 1.2 Obtain, read, interpret, clarify and confirm work requirements 1.3 Identify and apply the functions of the PLC to the activity 1.4 Conduct equipment/plant walk around 1.5 Identify and locate the plant's equipment by name, number/code and function 1.6 Obtain and interpret emergency procedures, and be prepared for fire/accident/emergency
2. Monitor and control operations	2.1 Carry out pre-start, start-up and shutdown of the plant completely or partially in the sequence necessary to avoid plant or

	equipment damage or injury to personnel
2.2	Monitor and control operations within the equipment limitations, maintaining plant efficiency and effectiveness
2.3	Act on or report monitoring systems and alarms
2.4	Complete the work plan
2.5	Maintain, process and pass on records and reports

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

RIIPRO203A Operate programmable logic control systems

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 RIIPRO203D Operate programmable logic control systems

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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 relevant documentation, policies and procedures
- implements the requirements, procedures and techniques for the safe, effective and efficient completion of the operation of programmable logic controllers (PLCs) including:
 - conducting prestart checks and shut-down operations
 - applying diagnostic techniques
 - selecting and using relevant tools
 - working wearing personal protective equipment
 - conducting operational maintenance
 - working in confine space
 - using alarm/monitoring and control systems
 - applying keyboard skills
- works effectively with others to undertake and complete the operation of programmable logic controllers (PLCs) that meets 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

- demonstrates completion of the operation of programmable logic controllers (PLCs) that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - completing walk around check on plant and confirming operational status
 - completing the work plan
 - carry out pre-start, start-up and shutdown procedures
 - monitor and control operations on programmable logic control systems
 - identify and respond to alarms and signals

Knowledge Evidence

The candidate must demonstrate knowledge in operating programmable logic control systems through:

- site product characteristics
- applying process control pre-start, start-up, operating and shutdown procedures and techniques
- plant components functions, characteristics, technical capability and limitations
- using process control breakdown procedures
- using plant isolation procedures
- using process control system corrective procedures
- contaminant issues

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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