



Australian Government

RIIPRO502D Develop, implement and maintain process control systems

Release: 2

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Modification History

Release	Comment
1	This unit replaces RIIPRO502A Develop, implement and maintain process 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 develop, implement and maintain process control systems in Metalliferous mining and Extractive.

This unit is appropriate for those working in management or technical specialist roles

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

Unit Sector

Extractive

Metalliferous mining

Elements and Performance Criteria

1. Plan and prepare for process control systems design	1.1 Access, interpret and apply process control systems 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 Analyse and select equipment to meet the process control needs of the operation 1.5 Optimise mechanical and technological advances in the bulk extraction, transport, handling and processing of extractive materials 1.6 Initiate, encourage and monitor safe practices, policies and
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	training 1.7 Survey and record field conditions 1.8 Design, evaluate, measure and cost parameters, and identify downstream effects 1.9 Consult suppliers/manufacturers in developing solutions to particular problems, projects and needs 1.10 Compare analysis systems and recommend solutions based on defined parameters 1.11 Plan monitoring and control systems for effective management of the processing of materials and reliability of equipment 1.12 Plan and maintain accurate records for budgeting and future decision making 1.13 Negotiate with electrical suppliers for power requirements, cabling, size of supply equipment, over-use penalties, tariffs, means of improving efficiency and back-up supplies
2. Maintain quality of extractive materials	2.1 Implement and monitor accepted testing procedures used for assessing material quality in site laboratories 2.2 Engage expertise to perform tests that achieve consistent results, in line with site specific quality systems that conform to independent testing authority standards 2.3 Apply appropriate work practices covering all potential environmental problems 2.4 Ensure that materials are blended to product quality standards and the customer's satisfaction 2.5 Recommend adjustments to production process to meet production quality parameters in accordance with site quality plan
3. Provide advice to customers	3.1 Consult with customers/clients and offer a range of materials and their properties available to suit identified needs of customer 3.2 Identify material properties for various uses
4. Resource and utilise environmental knowledge	4.1 Collect and use data on existing climate, air quality, water resources, flora and fauna and socio-economic items in pre-production, operational and post-production control phases
5. Carry out fault diagnosis and repairs	5.1 Perform routine monitoring and maintenance procedures for testing equipment in line with manufacturers specification 5.2 Ensure that laboratory personnel are trained to maintain effectiveness of site quality system

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

RIIPRO502A Develop, implement and maintain process control systems

Links

Companion Volume implementation guides are found in VETNet -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=88a61002-9a21-4386-aaf8-69c76e675272>