



Australian Government

RIISAM402D Supervise operation of electrical equipment and installations

Release: 2

RIISAM402D Supervise operation of electrical equipment and installations

Modification History

Release	Comment
1	This unit replaces RIISAM402A Supervise operation of electrical equipment and installations
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 describes a participant's skills and knowledge required to supervise operation of electrical equipment and installations in Extractive.

This unit is appropriate for those working in supervisory roles.

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

Unit Sector

Extractive

Elements and Performance Criteria

1. Plan and prepare to supervise electrical equipment operations and installations	1.1 Access, interpret and electrical equipment and installation documentation and ensure the work activity is compliant 1.2 Obtain, read, interpret, clarify and confirm work requirements 1.3 Identify, address and report potential hazards, risks and environmental issues and implement control measures 1.4 Select and wear personal protective equipment appropriate for the work activity 1.5 Communicate and coordinate activities with others prior to, during and on completion of the work activity 1.6 Identify training needs and prepare a training plan
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2. Implement site requirements	2.1 Access, interpret and clarify conditions of electrical supply in planning site use of electrical energy 2.2 Access, interpret and confirm currency of electrical plans and drawings 2.3 Monitor safe and efficient operation of electrical equipment and installations
3. Monitor, adjust and report performance	3.1 Manage activities so that potential hazards and inefficiencies with operation of electrical equipment are minimised 3.2 Inspect all electrical equipment is maintained in a safe condition, record and report faults 3.3 Access and interpret monthly electricity usage information and recommend improvements to reduce electrical usage 3.4 Identify and recommend improvements for the operation of electrical equipment 3.5 Inform individuals/teams of the results of improvements in operation of electrical equipment 3.6 Process written records and reporting

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

RIISAM402B Supervise operation of electrical equipment and installations

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 RIISAM402D Supervise operation of electrical equipment and installations

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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 that the candidate:

- locates and applies relevant legislation, documentation, policies and procedures
- implements the requirements, procedures and techniques for the safe, effective and efficient operation in supervision of electrical equipment and installations including:
 - legislative, organisation and site requirements and procedures
 - procedures for providing information
 - electrical hazards identification procedures
 - electrical risk assessment procedures
- procedures for the preparation of work procedure and instruction works effectively with others to plan, prepare and conduct the operation of electrical equipment and installations including:
 - complying with written and verbal reporting requirements and procedures
 - communicating clearly and concisely with others to resolve coordination requirements prior to commencing and during work activities
 - provide team leadership
- demonstrates completion of supervising the operation of electrical equipment and installations that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - accessing and interpreting electrical diagrams
 - apply procedures for the preparation of work procedure and instructions
 - selecting and confirming available resources for the work activity

- identifying and implementing improvements to work programs
- implementing processes and procedures to minimise risks and hazards from electrical energy

Knowledge Evidence

The candidate must demonstrate knowledge in supervising the operation of electrical equipment and installations through:

- accessing, interpreting and applying legislative, organisation and site requirements and procedures for:
 - hazard and risk identification and management
 - statutory compliance
 - work health and safety
 - environmental issues
 - organisation's requirements and procedures
 - electrical risk treatment procedures
 - procedures for identifying training needs and implement training
 - recording and reporting procedures
 - human resource management
- identifying and managing potential electrical hazards
- identifying basic electrical terminology and theory of operation of common electric motors and control equipment
- identifying, interpreting and confirming types of electrical supply systems
- identifying and applying potential electrical inefficiencies
- completing written reports

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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