



Australian Government

Department of Education, Employment and Workplace Relations

RIIMPO503A Manage laser levelling of operating plant

Release: 1

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Modification History

Not applicable.

Unit Descriptor

This unit covers managing of laser levelling of operating plant in resources and infrastructure industries. It includes: planning for, implementing and monitoring laser levelling.

Application of the Unit

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

- Civil construction
- Coal mining
- Extractive industries
- Metalliferous mining

Licensing/Regulatory Information

Refer to Unit Descriptor.

Pre-Requisites

Not applicable.

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.
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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Plan for the laser levelling	1.1. Access, interpret and apply compliance documentation relevant to the managing of laser levelling of operating plant 1.2. Interpret design to identify laser levelling to be implemented 1.3. Check design for internal inconsistencies 1.4. Identify and contact stakeholders according to organisation guidelines 1.5. Identify and obtain project resources to meet requirements 1.6. Assess hazards and determine plan to safely manage identified risks
2. Implement laser levelling	2.1. Accurately identify alignments, heights or grades to be transferred/established 2.2. Set up equipment to utilise the laser techniques to provide alignment signals 2.3. Document operational procedures for the effective utilisation of these signals within the mine plan 2.4. Document regulation reporting and site requirements to be followed during operations 2.5. Document emergency procedures 2.6. Identify and contact stakeholders according to organisation guidelines 2.7. Manage project resources
3. Monitor laser levelling	3.1. Monitor effectiveness of policies, plans, procedures and workplace practices of laser levelling against objectives, timelines, key performance indicators and regulations 3.2. Arrange validating laser levelling techniques ensuring correct identification or spatial components 3.3. Compare measurements against specification and against project requirements 3.4. Identify inconsistencies possible or improvements in levelling program 3.5. Monitor the impact of contingencies 3.6. Monitor effective use of resources

Required Skills and Knowledge

This section describes the skills and knowledge required for this unit.

Required skills

Specific skills are required to achieve the performance criteria in this unit, particularly for the application in the various circumstances in which this unit may be applied. This includes the ability to carry out the following as required to Manage laser levelling of operating plant:

- apply legislative, organisation and site requirements and procedures
- use laser levelling equipment
- develop responsibility/motivation
- demonstrate policy management skills
- demonstrate interpersonal skills
- liaise with other parties
- coordinate others
- manage information
- apply problem solving skills
- use measuring equipment
- write clear reports
- facilitate meetings

Required knowledge

Specific knowledge is required to achieve the Performance Criteria of this unit, particularly its application in a variety of circumstances in which the unit may be used. This includes knowledge of the following, as required to Manage laser levelling of operating plant:

- measurement techniques
- accuracy and precision requirements
- limitations of equipment, measuring and analysis guidelines
- project reporting guidelines
- risk management principles
- company organisation
- work role definitions
- reporting methods and alternatives
- relevant regulations, licenses and permits
- emergency procedures and obligations
- community expectations
- consultative strategies
- alternative documentation systems for procedures
- training systems
- emergency response and evacuation planning processes and techniques

Evidence Guide

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment	
Critical aspects for assessment and evidence required to demonstrate competency in this unit	The evidence required to demonstrate competency in this unit must be relevant to worksite operations and satisfy all of the requirements of the performance criteria, required skills and knowledge and the range statement of this unit and include evidence of the following: • knowledge of the requirements, procedures and instructions for the management of laser levelling of operating plant • implementation of procedures and techniques for the safe, effective and efficient management of laser levelling of operating plant • the identification of the relevant information and scope of the work required to meet the required outcomes • the identification of viable options and the selection of options that best meet the required outcomes • working with others to undertake and complete the application of laser levelling of operating plant • consistent successful management of laser levelling of operating plant
Context of and specific resources for assessment	• This unit must be assessed in the context of the work environment. Where personal safety or environmental damage are limiting factors, assessment may occur in a simulated environment provided it is realistic and sufficiently rigorous to cover all aspects of workplace performance, including task skills, task management skills, contingency management skills and job role environment skills. • The assessment environment should not disadvantage the participant. For example, language, literacy and numeracy demands of assessment should not be greater than those

	required on the job. • Customisation of assessment and delivery environment to sensitively accommodate cultural diversity. • Aboriginal people and other people from a non English speaking background may have second language issues. • Assessment of this competency requires typical resources normally used in the work environment. Selection and use of resources for particular worksites may differ due to site circumstances. • Where applicable, physical resources should include equipment modified for people with disabilities. • Access must be provided to appropriate learning and/or assessment support when required.
Method of assessment	This unit may be assessed in a holistic way with other units of competency. The assessment strategy for this unit must verify required knowledge and skill and practical application using more than one of the following assessment methods: • written and/or oral assessment of the candidate's required knowledge to apply in undertaking of the management of laser levelling of operating plant • observed, documented and/or first hand testimonial evidence of the candidate's: • implementation of appropriate procedures and techniques for the safe, effective and efficient achievement of the required outcomes • identification of the relevant information and scope of the work required to meet the required outcomes • identification of viable options and the selection of options that best meet the required outcomes • consistently achieving the required outcomes • first hand testimonial and documentary evidence of the candidate's: • working with others to undertake and

	complete the application of laser levelling of operating plant • provision of clear and timely required support and advice on the application of laser levelling of operating plant
Guidance information for assessment	Consult the SkillsDMC User Guide for further information on assessment including access and equity issues.

Range Statement

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

Relevant compliance documentation may include:	• legislative, organisation and site requirements and procedures • manufacturer's guidelines and specifications • Australian standards • codes of practice • Employment and workplace relations legislation • Equal Employment Opportunity and Disability Discrimination legislation
Stakeholders may include:	• client • client representatives • government authorities • community groups • engineers • architects • contractors
Policies, plans and procedures relating to laser levelling may include:	• organisational commitment • corporate and environment policy • environment impact assessment • community consultation and involvement • objectives and targets • surveying program • documentation and records • operational and emergency procedures • responsibility and reporting structure • environmental impact, regulatory and legal compliance • emission and performance monitoring and measurement • land reclamation practices
Spatial components may include:	• position • dimension • height • direction

	• grade • depth • slope • volume • flow rates
Contingencies may include:	• equipment failure • observation errors • movement • weather • injury • obstructions

Unit Sector(s)

Mobile Plant Operations

Competency field

Refer to Unit Sector(s).

Co-requisite units

Not applicable.