



Australian Government

Department of Education, Employment and Workplace Relations

AHCIRG406A Plan on-site irrigation system installation and construction work

Release: 1

AHCIRG406A Plan on-site irrigation system installation and construction work

Modification History

Not Applicable

Unit Descriptor

Unit descriptor	This unit covers planning on-site irrigation system installations and construction work and defines the standard required to: identify operational requirements from contract documentation; develop strategies and plan procedures for installation and construction; develop a project plan with tasks, responsibilities, timelines and costs.
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Application of the Unit

Application of the unit	This unit applies to irrigation installers who plan on-site irrigation system installation and construction work.
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Licensing/Regulatory Information

Not Applicable

Pre-Requisites

Prerequisite units		

Employability Skills Information

Employability skills	This unit contains employability skills.
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Elements and Performance Criteria Pre-Content

Not Applicable

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA
1. Appraise contract documentation and translate into operational requirements	1.1. Copy of building approval and conditions is obtained as required. 1.2. Contract documentation is reviewed for any unusual aspects of construction, use of materials and penalties. 1.3. Availability of sub-contractors is ascertained and selected to suit job requirements. 1.4. Availability of materials is checked with suppliers. 1.5. Site access limitations are assessed. 1.6. Relevant authorities controlling construction work advised of commencement date for project as required.
2. Develop strategies for implementing the construction operations	2.1. Procedures for controlling and recording site deliveries are established. 2.2. Procedures for recording the hire of plant and equipment are determined. 2.3. Occupational Health and Safety (OHS) procedures are established, including hazard/risk management. 2.4. Procedures are established for dealing with environmental issues associated with irrigation construction work. 2.5. Procedures required for the control of multiple projects are determined.
3. Prepare project schedule for irrigation installation and construction	3.1. Construction operations are prepared in sequence. 3.2. Operations are entered into a manually prepared schedule or computer based software package. 3.3. 'Critical path' is identified and schedule revised with new activities/projects, as needed, and documented. 3.4. Timeframe is adjusted to take account of anticipated delays.
4. Determine all the required resources for project	4.1. Temporary services and site accommodation is determined as required. 4.2. Plant requirements and dates are selected and accessed. 4.3. On site labour requirements are determined.
5. Prepare dilapidation report	5.1. Records are made of the condition of existing building(s) to be retained and structures on the adjacent site boundaries. 5.2. Copies of reports are submitted to adjacent building owners prior to commencing construction.

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required skills

- analyse contract conditions
- develop strategies
- schedule projects
- determine resources
- identify adverse environmental impacts of irrigation activities and appropriate remedial/preventative action
- incorporate legislative and enterprise OHS and environmental procedures into planning
- use literacy skills to read, interpret and follow organisational policies and procedures, develop sequenced written instructions, record accurately and legibly information collected and select and apply procedures to a range of tasks
- use oral communication skills/language competence to fulfil the job role as specified by the organisation including questioning, active listening, asking for clarification, negotiating solutions and responding to a range of views
- use numeracy skills to estimate, calculate and record routine and more complex workplace measures and data
- use interpersonal skills to work with others and relate to people from a range of cultural, social and religious backgrounds and with a range of physical and mental abilities.

Required knowledge

- installation and construction processes for on-site irrigation systems
- logical construction sequence for the system
- analysis of the required project resources
- environmental impacts of irrigation using water from any ground or underground source
- relevant enterprise OHS and environmental procedures
- relevant Australian Standards (e.g. AS3500)
- effect of main soil types on approach to excavation work and installation of irrigation components.

Evidence Guide

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 workplace operations and satisfy holistically all of the requirements of the performance criteria and required skills and knowledge and include achievement of the following:

- identify operational requirements from contract documentation
- develop strategies and plan procedures for installation and construction
- develop a project plan with tasks, responsibilities, timelines and costs.

Context of and specific resources for assessment

Competency requires the application of work practices under work conditions. Selection and use of resources for some worksites may differ due to the regional or enterprise circumstances.

Range Statement

RANGE STATEMENT

The range statement relates to the unit of competency as a whole.

Planning may include:

- the planning of installation and construction work for both gravity fed and pressurised irrigation systems.

Unit Sector(s)

Unit sector

Irrigation

Co-requisite units

Co-requisite units		

Competency field

Competency field	
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