



Australian Government

RIICWM601D Establish civil construction plans

Release: 2

RIICWM601D Establish civil construction plans

Modification History

Release	Comment
1	This unit replaces RIICWM601A Establish civil constructions plans
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 establish civil construction plans in Civil construction.

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

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

Unit Sector

Civil construction

Elements and Performance Criteria

1. Prepare and prepare to establish civil construction plans	1.1 Access, interpret and apply civil construction plan documentation and ensure the work activity is compliant 1.2 Obtain, read, interpret, clarify and confirm work requirements 1.3 Confirm the availability and accuracy of the project information required for completion of the civil construction plan 1.4 Prepare the scope of work required for the safe effective and efficient completion of the project
2. Conduct the civil construction planning process	2.1 Identify the viable available options for the construction program 2.2 Select the preferred option and draft the construction program in consultation with relevant team members 2.3 Identify contingency requirements to be allowed for 2.4 Monitor and coordinate the progress of other team members

	involved 2.5 Identify and schedule the resources required for the execution of the construction program 2.6 Identify the key performance indicators to be used 2.7 Gain client agreement on construction milestones 2.8 Prepare an accurate estimate of the cost of execution of the plan in consultation with relevant team members 2.9 Gain approval 2.10 Document the civil construction plan
3. Initiate civil construction plans	3.1 Acquire and make available the necessary resources 3.2 Issue clear and timely instructions to team members and others
4. Monitor, adjust and report on the execution of civil construction plans	4.1 Ensure the safe, effective and efficient execution of the plan 4.2 Monitor the civil construction plan performance 4.3 Initiate adjustments to civil construction plan 4.4 Provide ongoing clarification and advice to those applying the plan 4.5 Ensure written and verbal reports are complete and submitted 4.6 Conduct a performance review of the construction plan 4.7 Recommend improvements to safety, efficiency and effectiveness

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

RIICWM601A Establish civil construction plans

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 RIICWM601D Establish civil construction plans

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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 legislation, documentation, policies and procedures
- implements appropriate procedures and techniques for the safe, effective and efficient completion of civil construction plans including accessing, interpreting and applying:
 - project plans and drawings
 - project specifications
 - project construction briefs
 - project engineering survey information
 - project hydrological data
 - meteorological data
 - project geotechnical data
 - innovative solutions and new technology
 - consultative processes
 - project scheduling and resource management technology
 - negotiation techniques
 - feedback techniques
- works effectively with others to establish civil construction plans that meets all the required outcomes including:
 - providing clear and timely instruction and supervision using a range of communication techniques to those involved
 - preparing for and conducting briefings, toolbox and site meetings

- maintaining clear and legible written records and the reporting systems
- consulting with stakeholders
- demonstrates completion of establishing civil constructions plans that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - the identification of the relevant information and scope of the work required to meet the required outcomes
 - the identification of viable program options and the selection of programs that best meet the required outcomes, including:
 - identifying contingency requirements
 - gaining client agreement on milestones
 - monitoring and coordinating the progress of other team members involved
 - identifying and scheduling the required resources
 - identifying and monitoring key performance indicators
 - preparation of accurate cost estimate
 - gaining approval
 - documenting the construction plan
 - provide clarification and advice

Knowledge Evidence

The candidate must demonstrate knowledge of the following when establishing civil construction plans through:

- accessing, interpreting and applying legislative, organisation and site requirements and procedures for:
 - risk management
 - statutory compliance
 - construction plan development and implementation
 - work, health and safety
 - environmental management
 - quality management
 - inspection and testing requirements and procedures
 - verbal and written communication
 - consultation and community relations
 - traffic management
 - staff training
 - construction plan review
 - construction plan documentation
 - construction plan reporting
 - construction plan approval
 - construction plan records filing

- performance review
- team leadership and coordination
- cost management
- client liaison
- scheduling
- production rates
- civil construction works options
- identifying and using sources of information on innovation and new technology
- applying techniques for choosing preferred options
- applying operational techniques required for the execution of civil works projects
- applying civil construction plant and equipment capabilities
- cost estimation techniques
- identifying principles of road user behaviour

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	1	1 Year

Mining, Extractive (Quarrying) and Civil Construction	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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