



Australian Government

RIICTB203D Produce drawings and sketches

Release: 2

RIICTB203D Produce drawings and sketches

Modification History

Release	Comment
1	This unit replaces RIICTB203A Produce bridge drawings and sketches
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 apply Produce drawings and sketches in Civil Construction.

This unit is appropriate for those working in operational roles.

Licensing, legislative, regulatory and certification requirements that apply to this unit can vary between states, territories, and Industry sectors. Relevant information must be sourced prior to application of the unit.

Unit Sector

Civil construction

Elements and Performance Criteria

1. Plan and prepare to Produce drawings and sketches	1.1. Access, interpret and apply drawings and sketches documentation and ensure the work activity is compliant 1.2. Confirm and apply safety requirements 1.3. Obtain, interpret and adhere to quality requirements, format and drawing conventions 1.4. Select and check for faults tools and equipment to carry out tasks 1.5. Select drawing type from a range of drawings to suit job requirements 1.6. Identify key features, site dimensions and orientation, structures, services and features for inclusion in drawings
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2. Create simple sketches, orthographic drawings and sectional views	2.1. Select drawing medium 2.2. Prepare simple two dimensional drawings and sketches 2.3. Prepare simple three dimensional drawings and sketches 2.4. Prepare sectional details of simple structural elements and elevations 2.5. Include common symbols and abbreviations 2.6. Prepare title panels to enable verification that drawing used is the latest version
3. Develop specifications	3.1. Identify purpose of specifications as they relate to bridge drawings 3.2. Identify elements as suitable for use in specifications 3.3. Draft specification for a bridge project

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

RIICTB203A Produce drawings and sketches

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 RIICTB203D Produce drawings and sketches

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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 applicable legislation, documentation, policies and procedures
- implements the requirements, procedures and techniques for the safe, effective and efficient completion of bridge drawings and sketches including:
 - developing specifications
- works with others to undertake and complete the production of bridge drawings and sketches that meets all of the required outcomes including:
 - communicating clearly and concisely with others to receive and clarify work instructions
 - using a range of communication techniques and systems to advise others of work activity
- demonstrates completion of producing drawings and sketches that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - identifying, reporting and recording hazards and risks
 - producing at least two (2) sketches for a minimum of three (3) different projects in compliance with standard drawing conventions:
 - one (1) orthographic drawing and one sectional view drawing,
 - one (1) elevation, plan and end view
 - developing specifications

Knowledge Evidence

The candidate must demonstrate knowledge in producing bridge drawings and sketches through:

- applying organisational and site requirements and procedures for:
 - site and equipment safety requirements
 - timber bridge durability treatment procedures and techniques
 - scaffolding
 - preservatives and protective coatings
 - termite barriers
 - waterproofing
 - timber deterioration
 - bridge foundations
 - bridge heritage
 - calculation of material requirements
- quality assurance systems and standards
- equipment types, characteristics, technical capabilities and limitations
- operational, maintenance and basic diagnostic procedures
- site isolation and traffic control responsibilities and authorities
- safety data sheets and materials handling methods
- JSA/JSEA/safe work method statements
- symbols and abbreviations
- drawing mediums

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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