



Australian Government

Department of Education, Employment and Workplace Relations

NWP527B Conduct commissioning and post commissioning activities

Revision Number: 2

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Modification History

NWP527B Release 2: Layout adjusted. No changes to content.

NWP527B Release 1: Primary release.

Unit Descriptor

This unit of competency describes the outcomes required to plan and manage the commissioning and post-commissioning activities associated with asset construction.

Application of the Unit

This unit supports the attainment of skills and knowledge required for construction and other managers responsible for the commissioning of new assets and their management post-commissioning.

Licensing/Regulatory Information

Not applicable.

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 required performance needed to demonstrate achievement of the element. Where ***bold italicised*** text is used, further information is detailed in the range statement. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1 Plan for commissioning activities.	<ul style="list-style-type: none">1.1 Access and interpret organisational and/or contractual requirements and <i>documentation</i> for the post-construction commissioning of assets.1.2 Develop a specified acceptance program according to organisational requirements.1.3 As required, secure authorisation of the commissioning process from appropriate personnel.1.4 Negotiate and communicate commissioning activities, process and schedule with relevant <i>stakeholders</i>.
2 Conduct commissioning activities.	<ul style="list-style-type: none">2.1 Schedule and conduct the defined commissioning program.2.2 Conduct <i>site inspections</i> according to commissioning requirements.2.3 Undertake a review of the <i>construction or installation planning</i>.
3 Conduct post-commissioning activities.	<ul style="list-style-type: none">3.1 Monitor and record asset performance according to organisational standards.3.2 Identify defects and make arrangements to rectify them in accordance with standard organisational procedures and/or contract requirements.3.3 Record required operational or maintenance schedules.3.4 Finalise the asset register/list according to organisational standards.

Required Skills and Knowledge

This describes the essential skills and knowledge and their level, required for this unit.

Required skills:

- communicate effectively
- plan and schedule activities effectively
- develop planning processes
- interpret design plans
- interpret job specifications
- interpret contractual specifications
- monitor work progress
- apply relevant legislation
- conduct investigations
- conduct site inspections
- prepare reports
- make adjustments and alterations to designs

Required knowledge:

- organisational contract procedures
- site inspection procedures
- investigation procedures
- evaluation and investigation requirements
- enterprise reporting procedures and reporting requirements
- characteristics, technical capabilities and limitations of relevant materials
- material handling procedures
- relevant legislation
- occupational health and safety and environmental legislation, Acts and procedures

Evidence Guide

The evidence guide provides advice on assessment and must be read in conjunction with the Performance Criteria, Required Skills and Knowledge, the Range Statement and the Assessment Guidelines for the Training Package.

Critical aspects for assessment and evidence required to demonstrate competency in this unit

The candidate should demonstrate the ability to plan and manage the commissioning and post-commissioning activities associated with asset construction including:

- interpreting complex documentation (contracts, plans, specifications, etc) in order to prepare a commissioning plan and schedule
- developing an effective commissioning plan and schedule
- undertaking inspections and other commissioning activities to meet organisational requirements and reflect the specifications of the job
- undertaking post commissioning activities to organisational standard
- managing the processes for addressing defects
- reporting outcomes effectively and to organisational standard

Context of and specific resources for assessment

Access to the workplace and resources including:

- documentation that should normally be available in a water industry organisation
- relevant codes, standards, and government regulations

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.

Assessment processes and techniques must be culturally appropriate, and appropriate to the language and literacy capacity of the candidate and the work being performed.

Validity and sufficiency of evidence requires that:

- competency will need to be demonstrated over a period of time reflecting the scope of the role and the practical requirements of the workplace
- where the assessment is part of a structured learning experience the evidence collected must relate to a number of performances assessed at different points in time and separated by further learning and practice
- a decision of competence should only be made when the assessor has complete confidence in the person's

competence over time and in various contexts

- all assessment that is part of a structured learning experience must include a combination of direct, indirect and supplementary evidence
- where assessment is for the purpose of recognition (RCC/RPL), the evidence provided will need to be authenticated and show that it represents competency demonstrated over a period of time
- assessment can be through simulated project-based activity and must include evidence relating to each of the elements in this unit

In all cases where practical assessment is used it will be combined with targeted questioning to assess the underpinning knowledge. Questioning will be undertaken in a manner appropriate to the skill levels of the operator, any cultural issues that may affect responses to the questions, and reflecting the requirements of the competency and the work being performed.

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. Add any 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.

Documentation may include:

- specifications
- briefs
- drawings
- pricing schedules
- permits
- instruments of agreement
- acceptance
- general and special conditions of contract
- operational manuals
- maintenance manuals
- as constructed drawings
- plans of other authorities
- financial plans
- project plans

Stakeholders may include:

- contractors
- government
- property owners
- utility organisations
- customers
- general public
- asset users

Site inspections may be conducted to confirm:

- planning
- inspect preparation work
- assess compliance with specifications
- assess compliance with occupational health and safety requirements

Construction or installation planning may include:

- specifications
- schedules
- phasing and programming
- services and facilities

Unit Sector(s)

Not applicable.

Competency field

Asset management.