



**Australian Government**

# **ICTTEN409 Commission an electronic system**

**Release: 1**

## ICTTEN409 Commission an electronic system

### Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 2.0.

### Application

This unit describes the skills and knowledge required to commission an electronic system with applications, including cellular telemetry, voice over IP (VoIP), radio frequency identification (RFID), supervisory control and data acquisition (SCADA) networks and SCADA security, telephony, data, video, IP television (IPTV) and multimedia.

It applies to individuals who may work as field officers and technicians employed by telecommunications carriers, service providers or contractors.

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

### Unit Sector

Telecommunications – Telecommunications Networks Engineering

### Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare to commission electronic system	1.1 Prepare for work following work health and safety (WHS) requirements 1.2 Organise resources based on existing and potential site hazards 1.3 Contact customer or network operations personnel for site access and network specifications 1.4 Determine function and requirements of electronic system from specifications 1.5 Identify potential security threats and vulnerability where remote monitoring and control via public telecommunications network or

<b>ELEMENT</b>	<b>PERFORMANCE CRITERIA</b>
	<p>internet are used, and report to appropriate personnel</p> <p>1.6 Verify installed electronic system and associated cabling conform to specifications, and assess compatibility of system units</p> <p>1.7 Establish commissioning dates with all parties and establish planned outage</p> <p>1.8 Check suitability and calibration status of test equipment</p> <p>1.9 Produce a preliminary commissioning plan according to manufacturer's instructions and enterprise guidelines for discussion with the customer</p>
2. Organise planned outages	<p>2.1 Negotiate outage times with appropriate groups and affected customers to minimise disruptions</p> <p>2.2 Arrange for emergency communications based on contingency plans</p> <p>2.3 Notify alarm management centre of planned action</p> <p>2.4 Obtain authority to proceed from relevant control centre and notify customers affected by the outage</p>
3. Perform commissioning procedures	<p>3.1 Configure electronic system parameters and install software according to manufacturer's specifications and customer requirements</p> <p>3.2 Conduct tests according to manufacturer's specifications and industry practice</p> <p>3.3 Conduct cut over according to project design and industry practice in consultation with appropriate personnel</p> <p>3.4 Conduct a security audit, including remote threat analysis in applications where the public telecommunications network or internet is linked to the overall electronic system</p>
4. Finalise commissioning	<p>4.1 Record configuration information and update relevant databases according to enterprise and network guidelines</p> <p>4.2 Notify appropriate person of commissioning results and work completion</p> <p>4.3 Complete administrative tasks according to industry practice and enterprise guidelines</p>

## Foundation Skills

*This section describes language, literacy, numeracy and employment skills incorporated in the performance criteria that are required for competent performance.*

<b>Skill</b>	<b>Performance Criteria</b>	<b>Description</b>
Reading	1.4	<ul style="list-style-type: none"> <li>Interprets complex information to determine job requirements</li> </ul>
Writing	1.9, 4.1	<ul style="list-style-type: none"> <li>Completes technical workplace documentation using vocabulary and form appropriate to intended audience</li> </ul>
Navigate the world of work	1.1, 1.5-1.7, 4.1, 4.3	<ul style="list-style-type: none"> <li>Takes personal responsibility for following explicit and implicit policies, procedures and legislative requirements relevant to own work context</li> </ul>
Interact with others	1.3, 1.5, 1.6, 2.1, 2.3, 2.4, 4.2	<ul style="list-style-type: none"> <li>Collaborates and negotiates with others to achieve specific goals</li> <li>Selects appropriate form, channel and mode of communication when liaising with customers and personnel on technical and operational matters</li> </ul>
Get the work done	1.2, 1.4, 1.7, 1.8, 1.9, 2.2, 3.1-3.4	<ul style="list-style-type: none"> <li>Considers a range of complex factors when completing set tasks to ensure work is completed accurately and safely</li> <li>Recognises and anticipates a range of problems, actively looking for early warning signs and implementing contingency plans when appropriate</li> <li>Uses digital technologies and systems to complete required tasks</li> </ul>

## Unit Mapping Information

<b>Code and title current version</b>	<b>Code and title previous version</b>	<b>Comments</b>	<b>Equivalence status</b>
ICTTEN409 Commission an electronic system	ICTTEN4078A Commission an electronic system	Updated to meet Standards for Training Packages.	Equivalent unit

## Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2>