



Australian Government

ICTICT445 Connect and configure devices and hardware components

Release: 1

ICTICT445 Connect and configure devices and hardware components

Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 6.0.

Application

This unit describes the skills and knowledge required to install and configure devices and hardware components including mobile devices.

It applies to individuals who use a range of technical skills to configure and connect a device to other devices and maintain system components in a home or workplace environment.

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

Unit Sector

General ICT

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. Identify devices and hardware components	1.1 Identify and categorise types of devices, including their components and characteristics that require installation and configuration 1.2 Identify and categorise peripheral hardware components that require installation and configuration 1.3 Define purpose, characteristics and suitability of device types and peripheral hardware components according to installation and configuration requirements
2. Plan and configure device components	2.1 Develop and document installation and configuration plan, with prioritised task and contingency arrangements, according to installation and configuration requirements 2.2 Obtain approval for plan from required personnel

	2.3 Install and configure components according to plan, installation procedures and technical specifications 2.4 Test components and confirms error-free, enhanced performance
3. Evaluate modified system	3.1 Evaluate device connectivity according to vendor and technical specifications 3.2 Seek and respond to user feedback and update any identified performance issues 3.3 Evaluate and confirm device changes with client and required personnel 3.4 Document finalised process and outcomes and submit to required personnel

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

Skill	Description
Learning	• Uses each experience to reflect on ways in which variables impact on outcomes and to gain insights into what constitute effective strategies and practices for future work
Numeracy	• Identifies and interprets numerical data associated with device and component specifications
Reading	• Interprets and analyses online and hard copy documentation containing complex Information Communications Technology (ICT) related terminology, acronyms and concepts
Writing	• Uses spelling, grammar and plain English to articulate to audience • Uses ICT specific terminology, diagrams and syntax to convey explicit recommendations, requirements and information
Initiative and enterprise	• Develops strategies to manage relatively complex, non-routine tasks with an awareness of how they contribute to longer term operational and organisational goals
Planning and organising	• Identifies implications of organisational policies and procedures when negotiating, planning and undertaking work
Problem solving	• Responds to familiar problems requiring immediate attention, quickly drawing on past experience to devise solutions
Self-management	• Keeps up to date with organisational policies and procedures applicable to own rights and responsibilities

Skill	Description
Technology	Interprets purpose, needs and limitations when selecting devices and applications for different tasks

Unit Mapping Information

Supersedes and is equivalent to ICTICT421 Connect, maintain and configure hardware components.

Links

Companion Volume Implementation Guide is found on VETNet -

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

Assessment Requirements for ICTICT445 Connect and configure devices and hardware components

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- connect and configure at least one device and at least two related and required components.

In the course of the above, the candidate must:

- install components across at least three different situations and account for at least one unexpected contingency
- modify system's hardware, internal hardware and peripheral hardware components according to task requirements
- plan modification and connection of hardware, internal hardware and peripheral hardware components according to vendor and technical specifications
- test components and rectify identified problems.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- different types, characteristics and functions of different devices, hardware, internal hardware and peripheral hardware components including:
 - types
 - characteristics
 - functions
- diagnostic and testing hardware and software tools, systems and functions
- operating systems (OS) related to configuration and testing
- industry standard hardware and software products
- organisational policies and procedures and manufacturer's instructions
- installation and configuration plans for component installation.

Assessment Conditions

Skills in this unit must be demonstrated in a workplace or simulated environment where the conditions are typical of those in a working environment in this industry.

This includes access to:

- devices, including required hardware, internal hardware and peripheral components for installation and configuration, including:
 - a mobile smartphone
 - tablet
 - computer
- industry standard performance testing software
- technical manuals, tools and test equipment.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

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