



**Australian Government**

# **ICTICT528 Deploy smart contracts**

**Release: 1**

# ICTICT528 Deploy smart contracts

## 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 administer and manage smart contracts as a blockchain application. It involves the research, planning and deployment of blockchain applications for smart contracts suitable to specified business need.

It applies to those who work as senior software developers, blockchain developers, or those who are responsible for undertaking the assessment and implementation of new technologies to business models in the Information and Communications Technology (ICT) and related industries.

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

## Unit Sector

General ICT

Written Questions to determine if the candidate understands smart contracts - specifically for their industry

## 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 deploy blockchain technology	1.1 Establish organisational requirements for blockchain technology and contracts 1.2 Determine existing blockchain infrastructure 1.3 Identify data based on existing infrastructure and organisational requirements 1.4 Determine platform and security requirements
2. Plan deployment strategy	2.1 Determine and document deployment plan according to organisational requirements 2.2 Determine and document deployment timelines 2.3 Determine and document impact on organisational

The candidate will be observed on a presentation that demonstrates the smart contract technologies they have researched and used for their industry.

<p>3. Implement smart contracts technology</p> <p>The candidate will submit a smart contract example that demonstrates the smart contract technologies they have researched and used for their industry.</p>	<p>operations</p> <p>3.1 Deploy technology according to deployment plan</p> <p>3.2 Determine alignment of technological capabilities against deployment plan</p> <p>3.3 Determine and apply methods to align smart contract capability against deployment plan</p> <p>3.4 Create documentation and seek and respond to feedback from required personnel</p>
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## 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	<ul style="list-style-type: none"> <li>Monitors outcomes of decisions, considering results and identifying key concepts and principles that may be adaptable in the future</li> </ul>
Numeracy	<ul style="list-style-type: none"> <li>Uses mathematical formulae to calculate required equipment, undertake measurements and determine response times</li> </ul>
Oral communication	<ul style="list-style-type: none"> <li>Obtains information to articulate requirements and responsibilities distinctively using appropriate industry language intended for audience and environment</li> </ul>
Reading	<ul style="list-style-type: none"> <li>Recognises and interprets technical, manufacturer and organisational documentation to determine and confirm job requirements</li> </ul>
Writing	<ul style="list-style-type: none"> <li>Prepares documentation detailing deployment plan, timelines and impact on organisational operations using appropriate language for intended audience</li> </ul>
Planning and organising	<ul style="list-style-type: none"> <li>Operates from a broad conceptual plan, developing the operational detail in stages, regularly reviewing priorities and performance during implementation, and identifying and addressing issues</li> </ul>
Problem solving	<ul style="list-style-type: none"> <li>Uses nuanced understanding of context to recognise anomalies and subtle deviations to normal expectations, focusing attention and remedying problems as they arise</li> </ul>
Self-management	<ul style="list-style-type: none"> <li>Takes full responsibility for identifying and considering relevant organisational protocols and requirements</li> <li>Uses systematic processes, setting goals, gathering required information and identifying and evaluating options against agreed criteria</li> </ul>
Technology	<ul style="list-style-type: none"> <li>Demonstrates a sophisticated understanding of principles, concepts, language and practices associated with the digital world</li> </ul>

## Unit Mapping Information

No equivalent unit. New unit.

## Links

Companion Volume Implementation Guide is found on VETNet -

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