



Australian Government

ICTAUT502 Evaluate automated industrial manufacturing processes

Release: 1

ICTAUT502 Evaluate automated industrial manufacturing processes

Modification History

Release	Comments
Release 1	This version first released with the Information and Communications Technology Training Package Version 8.0. Newly created unit of competency to address in-demand skills needs.

Application

This unit describes the skills and knowledge required to analyse automated industrial manufacturing processes to solve operational problems and increase industrial efficiency. It includes identifying automated industrial manufacturing processes, reviewing organisational specifications and delivering recommended solutions to improve procedural processes.

The unit applies to individuals who may work as automation technicians supporting the automation of industrial manufacturing processes.

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

Unit Sector

Automation

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 automated industrial manufacturing process solutions	1.1 Confirm work brief and tasks according to organisational policies and procedures 1.2 Analyse existing industrial manufacturing processes potentially suitable for automation according to work brief 1.3 Document manufacturing processes suitable for automation according to analysis 1.4 Research automated industrial manufacturing

ELEMENT	PERFORMANCE CRITERIA
	<p>processes according to work brief</p> <p>1.5 Identify and document industrial automation considerations</p>
2. Review organisational specifications	<p>2.1 Evaluate organisational scalability requirements according to work brief</p> <p>2.2 Research requirements for organisational process volume and variety</p> <p>2.3 Evaluate organisational facility layout according to work brief</p> <p>2.4 Analyse and document findings in required format</p>
3. Develop organisational recommendations	<p>3.1 Select automated industrial manufacturing process solution according to documented research findings</p> <p>3.2 Analyse potential implementation risks according to work brief</p> <p>3.3 Assess potential solutions to identified risks</p> <p>3.4 Document implementation recommendations according to work brief</p> <p>3.5 Confirm that recommendations report contains rationale, research findings and risk analyses</p>
4. Deliver organisational recommendations	<p>4.1 Present recommendations to required personnel</p> <p>4.2 Seek feedback from required personnel</p> <p>4.3 Apply feedback and implement required changes</p> <p>4.4 Obtain approval on recommendations from required personnel</p> <p>4.5 Distribute approved recommendations to required personnel</p>

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
Oral communication	<ul style="list-style-type: none"> • Presents recommendations and issues according to organisational requirements and uses required conventions, protocols, and language appropriate to audience
Reading	<ul style="list-style-type: none"> • Interprets a range of technical information and determines solutions according to organisational requirements

Skill	Description
Writing	<ul style="list-style-type: none">• Documents recommendations using industry-specific and technical language
Problem solving	<ul style="list-style-type: none">• Applies principles of analytical thinking to identify organisational issues and select appropriate solutions
Self-management	<ul style="list-style-type: none">• Makes some critical and non-critical decisions to develop recommendations
Technology	<ul style="list-style-type: none">• Identifies and confirms purposes, specific functions and key features of common digital systems and tools• Applies principles, concepts, language and practices applicable to automated industrial manufacturing processes

Unit Mapping Information

No equivalent unit. Newly created unit.

Links

Companion Volume Implementation Guide is found on VETNet - -

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