



**Australian Government**

# **FBPTEC4011 Establish process capability**

**Release: 1**

## FBPTEC4011 Establish process capability

### Modification History

Release	Comments
Release 1	This version released with the FBP Food, Beverage and Pharmaceutical Training Package Version 2.0.

### Application

This unit of competency describes the skills and knowledge required to study process data to determine process capability using statistical process control techniques.

This unit applies to people responsible for establishing control charts and related sampling plans. It applies to individuals who take responsibility for their own work, and provide and communicate solutions to a range of predictable and sometimes unpredictable problems.

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

### Pre-requisite Unit

Prerequisite unit of competency for this unit is:

- FBPTEC4007 Describe and analyse data using mathematical principles.

### Unit Sector

Technical (TEC)

### Elements and Performance Criteria

Elements	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 conduct a capability study	1.1 Identify the scope and purpose of the process 1.2 Determine a representative data sample 1.3 Select data collection techniques 1.4 Collect data to meet sampling requirements
2. Analyse data to	2.1 Select and apply appropriate statistical analysis techniques

<b>Elements</b>	<b>Performance Criteria</b>
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
determine process capability	2.2 Identify process stability and extent of variation 2.3 Determine the target mean for the process 2.4 Calculate process control parameters 2.5 Specify related data sampling requirements 2.6 Compare and analyse data sets for process performance 2.7 Determine process capability

## Foundation Skills

*This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.*

<b>Skill</b>	<b>Description</b>
Reading	<ul style="list-style-type: none"> <li>Critically analyse documentation from a variety of sources, and consolidate data for analysis</li> </ul>
Writing	<ul style="list-style-type: none"> <li>Document outcomes and results of data collection and analysis using industry relevant terminology and recognised symbols</li> </ul>
Numeracy	<ul style="list-style-type: none"> <li>Perform mathematical calculations to analyse production and process information to accurately determine performance and capability</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>
FBPTEC4011 Establish process capability	FDFPPL4005A Establish process capability	Updated to meet Standards for Training Packages  Updated prerequisites	Equivalent unit

<b>Code and title current version</b>	<b>Code and title previous version</b>	<b>Comments</b>	<b>Equivalence status</b>
		Unit code updated to reflect appropriate sector  Minor changes to Performance Criteria for clarity	

## Links

Companion Volume Implementation Guides are found in VETNet: -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=78b15323-cd38-483e-aad7-1159b570a5c4>