



**Australian Government**

# **Assessment Requirements for FBPTEC4011**

## **Establish process capability**

**Release: 1**

# Assessment Requirements for 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.

## Performance Evidence

An individual demonstrating competency in this unit must satisfy all of the elements and performance criteria of this unit.

There must be evidence that the individual has established process capability on at least one occasion, including:

- establishing process scope, boundaries and related information on process purpose, including product or process specifications where available
- applying sampling techniques to determine nature and extent of data collection to provide a reliable indication of process performance
- selecting and applying data collection methods
- confirming that data collected is complete and complies with sampling requirements
- identifying characteristics of a normal distribution
- applying appropriate statistical techniques, including standard deviation to analyse data, and techniques to distinguish common and special causes of variation
- establishing process capability, including establishing upper and lower limits and instructions for identifying and responding to trends
- developing a related data sampling plan, including advice on sampling regimes following corrective action.

## Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- data collection requirements and techniques for collection of actual (quantitative) and variable data, including both automated (using software) and manual techniques (carried out by operators and involving communicating requirements and designing appropriate formats for recording data)
- techniques to determine and validate a sampling plan capable of providing reliable information representative of the total population

- appropriate formats for presenting sampling plan requirements and related communication systems
- statistical process control techniques and conditions for application
- workplace conventions/formats for presenting and monitoring process capability information, including control chart including a target mean, upper and lower limits and advice on how to interpret and confirm trends, and upper and lower warning limits where required
- process knowledge to identify possible causes of special variation
- difference between a stable process and a capable process, and action required to improve process performance in each case.

## Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
  - skills must be demonstrated in a workplace setting or an environment that accurately represents a real workplace
- resources, equipment and materials:
  - data collection requirements and technique
  - communication systems
- specifications:
  - statistical process control techniques and conditions.

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

## Links

Companion Volume Implementation Guides are found in VETNet: -

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