



Australian Government

Assessment Requirements for FBPOPR4001 Apply principles of statistical process control

Release: 1

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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 applied the principles of statistical process control to at least two different sets of data, including:

- identifying data needed for collection
- gathering and accurately recording required data
- applying statistical analysis techniques and identifying variations, trends and any necessary corrective actions
- presenting a range of statistical data in appropriate workplace format.

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 sampling methods, including the nature of the sample on which data is based, and the reasons for different sampling requirements that may apply in a given situation
- concept of variation, including the difference between common and special causes of variation, and consequent options for reducing variation and remaining within a given range
- the purpose and process of establishing targets and limits
- the concept of standard distribution/standard deviation
- methods used to interpret statistical data, including methods to determine the average, median and mean, and what these measures indicate
- a variety of calculations to determine unknown values
- using binomial theorem
- using variability and probability to estimate and interpret outcomes in both numerical and qualitative terms
- situations in which corrective action is required.

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:
 - statistical process control data
 - related data collection and analysis systems
 - calculator.

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>