Modification history

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

| FBPOPR2015 | Apply principles of statistical process control |
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| Application | This unit of competency describes the skills and knowledge required to collect statistical information and interpret data in order to inform work processes.This unit applies to individuals who are required to collect and interpret data to inform work practices. This typically includes plotting data on run, control or other charts, and identifying variations according to given limits.No occupational licensing, legislative or certification requirements to this unit at the time of publication.  |
| Prerequisite Unit | FBPOPR2061 Use numerical applications in the workplace |
| Unit Sector | Operational (OPR) |

| Elements | Performance Criteria |
| --- | --- |
| Elements describe the essential outcomes. | Performance criteria describe the performance needed to demonstrate achievement of the element. |
| 1. Collect statistical information | 1.1 Identify data collection requirements and confirm with supervisor1.2 Gather data using available collection equipment 1.5 Accurately record data to meet data collection requirements |
| 2. Interpret data | 2.1 Analyse data to identify variations and trends 2.2 Determine corrective action requirements based on data2.3 Document and store data according to workplace requirements  |

| Foundation SkillsThis 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. |
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| Skill | Description |
| Numeracy | * Uses statistical analysis techniques to calculate, compare and manipulate data
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| Writing | * Records data and presents information in required format
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| Get the work done | * Makes decisions based on analysis of available data
* Uses manual and computer-based methods to interpret data and identify trends
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| Unit Mapping Information |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| FBPOPR2015 Apply principles of statistical process control | FDFOP2015A Apply principles of statistical process control | Updated to meet Standards for Training Packages | Equivalent unit |

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| Links | Companion Volumes, including Implementation Guides, are available at VETNet: https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=78b15323-cd38-483e-aad7-1159b570a5c4 |

| TITLE | Assessment requirements for FBPOPR2015 Apply principles of statistical process control statistical process control |
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| Performance Evidence |
| An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit. There must be evidence that the individual has applied the principles of statistical process to at least one set of data including:* identifying data needed for collection
* gathering and accurately recording required data
* applying basic statistical analysis techniques and identifying variations, trends and any necessary corrective actions
* presenting data in required workplace format.
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| Knowledge Evidence |
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| 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 method, 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
* 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
* situations in which when corrective action is required.
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| Assessment Conditions |
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| 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. |

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