



Australian Government

AMPX405 Conduct statistical analysis of process

Release: 1

AMPX405 Conduct statistical analysis of process

Modification History

Release	TP Version	Comment
1	AMPv1.0	Initial release

Application

This unit describes the skills and knowledge required to collect and analyse statistical information relating to meat processing.

This unit is applicable to managers and Quality Assurance (QA) personnel who are required to analyse monitoring and verification data of a meat production process.

All work is carried out to comply with workplace and regulatory requirements.

This unit applies to individuals who take responsibility for their own work and for the quality of others' work within known parameters. They provide and communicate solutions to a range of predictable and sometimes unpredictable solutions.

This unit must be delivered and assessed in the context of Australian meat industry standards and regulations.

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

Pre-requisite Unit

Nil.

Unit Sector

Elements and Performance Criteria

Element	Performance criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Collect and analyse statistical data drawn from the workplace	1.1 Select samples from a process line 1.2 Conduct statistical calculations on samples
2. Use statistical analysis	2.1 Prepare relevant graphs and charts

Element	Performance criteria
to verify the process	2.2 Use a range of information and communications technology and software, including statistics management and analysis programs 2.3 Identify and analyse trends and cyclic patterns of control graphs 2.4 Prepare and present reports on the outcomes of the statistical analysis of monitoring data

Foundation Skills

Foundation Skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Unit Mapping Information

MTMPS416A Conduct statistical analysis of process	E
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Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=5e2e56b7-698f-4822-84bb-25adbb8443a7>

Assessment Requirements for AMPX405 Conduct statistical analysis of process

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Performance Evidence

The candidate must collect and analyse statistical information relating to meat processing. The candidate must complete analysis and report on at least three data runs to achieve competency.

The candidate must:

- apply statistical information to the analysis and verification of a process
- calculate simple statistical measures
- cooperate with monitors to ensure accuracy and timeliness of data
- use a range of information and communications technology and software, including statistics management and analysis programs
- conduct trend analysis of meat processing data
- explain the verification process using statistical data
- identify and apply relevant workplace health and safety, regulatory and workplace requirements
- perform basic statistical calculations on data from samples drawn from the workplace
- prepare control graphs and use charts as relevant
- prepare reports on the outcomes of the statistical analysis of monitoring data
- use and explain simple statistical measures, including mean, range, frequency, mode and median
- use relevant communication skills

Knowledge Evidence

The candidate must demonstrate a broad factual, technical and theoretical knowledge of:

- statistical measures, including mean, range, frequency, mode and median
- available software systems to assist with analysis and report preparation

Assessment Conditions

As a minimum, the following three forms of assessment must be used:

- quiz of underpinning knowledge
- workplace demonstration
- workplace referee or third-party report of performance over time

All evidence must be collected in the context of current Australian meat industry standards and regulations.

Assessors must satisfy current standards for RTOs.

Links

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