



Australian Government

Assessment Requirements for AMPA400 Utilise refrigeration index

Release: 1

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Modification History

Release	TP Version	Comment
1	AMPv1.0	Initial release

Performance Evidence

Evidence must demonstrate the candidate's consistency of performance over time at production speed.

The candidate must use the Refrigeration Index (RI) to validate compliance of a chilling and freezing process.

The candidate must demonstrate ability to:

- define a process and the relevant variables
- plan and manage the collection of data for a validation exercise
- arrange and document the validation of a chilling process using the RI
- input data into the RI index
- identify and resolve data inconsistencies
- process data into the correct format for the RI calculator
- review RI calculated and make decisions on process validation or product disposition
- maintain currency of knowledge and techniques through informal learning and personal research utilising resources including the internet, industry journals, Department of Agriculture notices and conference workshops
- identify and apply relevant workplace health and safety, regulatory and workplace requirements

Knowledge Evidence

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

- growth phases of microbes
- purpose of predictive microbiological models
- how and why RI is used
- parameters of the RI model
- product disposition using the RI
- ECO criteria for RI
- requirements for data collection

- different RI calculator options
- documentation requirements for process validation using RI
- factors affecting the growth of microbes
- meaning of log values
- regulatory requirements underpinning use of the RI

Assessment Conditions

Competency must be demonstrated utilising the RI calculator.

Assessment may involve processing real or simulated data.

A minimum of three different forms of assessment must be used.

Assessors must satisfy current standards for RTOs.

Links

Companion Volume implementation guides are found in VETNet -

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