



Australian Government

AMPA3004 Monitor the effective operations of electrical stimulation

Release: 1

AMPA3004 Monitor the effective operations of electrical stimulation

Modification History

Release	TP Version	Comment
1	AMPv2.0	Initial release

Application

This unit describes the skills and knowledge required to monitor an automated or manual electrical carcass stimulation unit to ensure that the carcasses are receiving the optimal stimulation.

This Unit is applicable to workers monitoring electrical stimulation units in slaughtering establishments.

All work should be carried out to comply with workplace procedures, customer requirements and product specifications.

This unit applies to individuals who work under broad direction and take responsibility for their own work including limited responsibility for the work of others. They provide and communicate solutions to a range of predictable problems.

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

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

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. Monitor electrical	1.1 Monitor the electrical stimulation unit using the correct

Element	Performance criteria
stimulation unit	procedure to check electrical stimulation equipment operation 1.2 Use dummy load across each of the electrical inputs to check operation in accordance with work instructions and manufacturers' specifications 1.3 Observe for and describe the normal reaction of carcasses to electrical stimulation 1.4 Observe for and respond to any abnormal reaction of carcasses to electrical stimulation 1.5 Follow up on requests for maintenance and check operation is normal 1.6 Follow workplace health and safety requirements for working around electrical stimulation units
2. Ensure routine checks of equipment by technicians are performed	2.1 Arrange or oversee routine checks to ensure a full check of the equipment is made including: electrical parameters, stored programs, electrical safety, electrodes and equipment integration 2.2 Review maintenance and equipment reports detailing the findings and recommendations and implement corrective actions
3. Respond to audits of carcase specification compliance	3.1 Describe the pH/temperature window and its importance to meat quality 3.2 Describe the audit process for electrical stimulation unit performance and the various potential findings 3.3 Respond to adverse audit findings including recommendations to alter stimulation inputs, alter stimulation time and adjust chilling regime

Foundation Skills

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

Range of Conditions

Unit Mapping Information

This unit is equivalent to MTMP3005A Monitor the effective operations of electrical stimulation.

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 AMPA3004 Monitor the effective operations of electrical stimulation

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Performance Evidence

The candidate must monitor an automated or manual electrical carcase stimulation unit to ensure that the carcasses are receiving the optimal stimulation.

The candidate must:

- observe and recognise normal and abnormal carcase responses to electrical stimulation
- instruct workers in and around electrical stimulation units to recognise and report abnormal carcase responses
- work safely around electrical stimulation units
- monitor the electrical stimulation unit using the correct procedure including readouts
- use dummy load across each of the electrical inputs to check operation
- request and schedule maintenance
- review maintenance and performance audit reports and ensure follow up action has been taken
- apply communication skills relevant to work instructions and Standard Operating Procedures (SOPs)

Knowledge Evidence

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

- purpose of electrical stimulation
- pH/temperature window and its importance to meat quality
- causes of heat toughening and cold shortening and the impacts on meat quality
- correct procedures to check electrical stimulation equipment operation
- purpose of dummy loads to check operation
- relevant work instructions and manufacturers' specifications
- normal and abnormal reactions of carcasses to electrical stimulation
- required routine checks for electrical parameters, stored programs, electrical safety, electrodes and equipment integration
- use of an oscilloscope to ensure that the waveform parameters are as specified
- maintenance and equipment reports

- audit process for electrical stimulation unit performance and the various potential findings
- how to respond to adverse audit findings of electrical stimulation unit performance
- workplace health and safety issues associated in working around electrical stimulation units

Assessment Conditions

Competency must be demonstrated over time and under typical operating and production conditions for the enterprise.

Assessment must occur in the workplace under normal enterprise **or** production 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

Assessors must satisfy the current standards for RTOs.

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