



Australian Government

AURTTA020 Apply heat induction processes

Release: 1

AURTTA020 Apply heat induction processes

Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to apply heat using induction processes when repairing vehicle chassis and components. It involves preparing for the task, selecting and using specialist tools and equipment, identifying damage, operating heat induction equipment according to manufacturer specifications, completing repairs to original equipment manufacturer (OEM) or authorised agency's specifications, and completing workplace processes and documentation.

It applies to those working in the automotive body repair industry.

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

Competency Field

Mechanical Miscellaneous

Unit Sector

Technical

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold and italicised text is used, further information is detailed in the range of conditions section.
1. Prepare to apply heat induction processes in repairs of vehicle chassis and components	1.1 Job requirements are determined from workplace instructions 1.2 <i>Repair information</i> is accessed and interpreted 1.3 Hazards associated with the work are identified and risks are managed

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold and italicised text is used, further information is detailed in the range of conditions section.
	1.4 Tools and equipment, including personal protective equipment (PPE), are selected and inspected for serviceability 1.5 Work area is prepared and work planned in line with job requirements, heating sequence, and workplace procedures
2. Carry out heat induction processes	2.1 Heat induction settings are identified and adjusted, and equipment is operated according to OEM or authorised agency specifications and workplace procedures 2.2 Induction heating activities to repair damaged chassis and components are completed according to OEM or authorised agency specifications, workplace procedures, and safety and environmental requirements , and without causing damage to workplace equipment, vehicle systems or other components
3. Complete work processes	3.1 Final inspection is made to ensure work meets workplace expectations and vehicle is presented ready for use 3.2 Work area is cleaned, waste and non-recyclable materials are disposed of, and recyclable material is collected and stored 3.3 Tools and equipment are checked, reported if faulty, and stored according to workplace procedures 3.4 Equipment maintenance activities are completed according to workplace procedures and equipment manufacturer specifications 3.5 Workplace documentation is processed according to workplace procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance and are not explicit in the performance criteria.

Skills	Description
Learning skills to:	locate appropriate sources of information efficiently.
Writing skills to:	legibly and accurately fill out workplace documentation.
Oral communication skills to:	- ask questions to clarify instructions and procedures - clearly report issues, defects and outcomes.
Numeracy skills to:	use basic mathematical operations, including addition and subtraction, to calculate heat induction settings

	interpret numerical information correctly in specifications and record accurately in forms or workplace documents.
Planning and organising skills to:	plan own work requirements and prioritise actions to achieve required outcomes and ensure tasks are completed within workplace timeframes.
Self-management skills to:	select and use appropriate equipment, materials and processes for applying heat induction in repair processes.
Problem solving skills to:	identify heat induction risk factors and take corrective action.
Technology skills to:	use heat induction equipment correctly and safely.

Range of Conditions

This section specifies work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included. Bold italicised wording, if used in the performance criteria, is detailed below.

<i>Repair information</i> must include:	- OEM or authorised agency's specifications - workplace procedures.
<i>Induction heating activities</i> must include the use of:	- metal colours - heat crayons - thermal temp gun.
<i>Safety and environmental requirements</i> must include:	- work health and safety (WHS) and occupational health and safety (OHS) requirements, including procedures for: - selecting and using PPE - using specialist heat induction equipment - identifying workplace hazards - environmental requirements including procedures for trapping, storing and disposing of waste materials.

Unit Mapping Information

Equivalent to AURTTA3020 Apply heat-induction processes

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1>

Assessment Requirements for AURTTA020 Apply heat induction processes

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Performance Evidence

Before competency can be determined, individuals must demonstrate they can perform the following according to the standards defined in this unit's elements, performance criteria, range of conditions and foundation skills:

- apply heat induction processes to three different chassis and component repairs, in which the work must involve the use of:
 - metal colours
 - heat crayons
 - thermal temp gun.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to applying heat induction processes, including procedures for:
 - selecting and using personal protective equipment (PPE)
 - using specialist heat induction equipment
 - identifying workplace hazards
- environmental requirements, including procedures for trapping, storing and disposing of waste materials
- heat induction process and procedures, including:
 - use of heat induction in repairs
 - use of heat induction equipment, including:
 - metal colours
 - heat crayons
 - thermal temp gun

- original equipment manufacturer (OEM) or authorised agency specifications and recommended repair procedures
- material types suitable for applying heat induction processes
- problem-solving techniques relating to addressing repair defects
- final inspection procedures
- work area clean-up and maintenance requirements
- procedures for completing workplace documentation.

Assessment Conditions

Assessors must satisfy NVR/AQTF assessor requirements.

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Assessment must include direct observation of tasks.

Where assessment of competency includes third-party evidence, individuals must provide evidence that links them to having used heat induction equipment to repair vehicle chassis, e.g. repair orders.

Assessors must verify performance evidence through questioning on skills and knowledge to ensure correct interpretation and application.

The following resources must be made available:

- automotive repair workplace or simulated workplace
- workplace instructions
- PPE required to use heat induction equipment
- OEM or authorised agency repair procedures
- heat induction equipment and operating instructions
- three different damaged vehicle chassis and components requiring heat induction repairs
- tools and equipment appropriate for applying heat induction processes.

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