

SUMMARY OF PROPOSED CHANGES

Project: Non-Destructive Testing Skills Project

This document has been developed to provide a detailed summary of changes and why including mapping information to support Registered Training Organisations.





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Non-Destructive Testing units what's changed.

Phase 5 - Assurance Body Submission

TBD.

Phase 4 - Senior Officials Check

TBD.

Phase 3 – Incorporating feedback

The level 1 trade unit codes below have been updated so they don't appear in the 24 series, to avoid confusion in selecting appropriate units for qualifications. The changes have been reflected in the affected qualifications and Companion Volume.

Initial Development	Public and Gov. Consultation	Incorporating Feedback
MEM24001	MEM24021	MEM18010
MEM24003	MEM24023	MEM18111
MEM24005	MEM24025	MEM18112
MEM24007	MEM24027	MEM18113
MEM24009	MEM24029	MEM18114

Phase 2 – Public and Government Consultation

Refer to the consultation log to view feedback and responses.

Phase 1 - Initial Development

Training package components

QUALIFICATIONS:

Change to the application to clarify which technical standards are identified, core and specialisation unit codes and titles updated and the elective tables of this qualification.

Major Changes

MEM50422 (MEM50425) Diploma of Engineering – Non-Destructive Testing.

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UNITS OF COMPETENCY: (18 Revised Units and 5 New Units Developed)

The following information identifies the changes that have been made to each of the affected units, the new unit code has been provided in brackets.

Major changes.

MEM24001 (MEM18010) Perform basic penetrant testing.

- Application
 - Unit previously applied to both tradespersons and technicians.
 - Application has been changed to more clearly indicate application to tradespersons and apprentices only.
 - One paragraph has been deleted as content is more appropriate to Performance and Knowledge Evidence.
- Performance Evidence Removed reference to Standards.
- Knowledge Evidence New point added on classification of penetrants and viewing characteristics
- Assessment conditions Third dot point clarified, and last dot point removed as it is a duplication of the first dot point.

MEM24002 (MEM24022) Perform penetrant testing.

- Title changed to 'Undertake penetrant tests'.
- Application Error reference in second paragraph to re-assessment of competency deleted. Industry coverage advice in third paragraph updated. Reference to technical standards updated.
- Prerequisites MEM16006 and its prerequisite MEM13015 added.
- Elements and Performance Criteria (PC)
 - PC1.1 edited for clarity and reference to risk assessment deleted as this task is not supported in Performance Evidence (PE) or Knowledge Evidence (KE).
 - o PC 5.1 moved to 2.2 re PPE and safe work practices.
 - PC 2.3 edited to recognise that the skill is in determining whether special access requirements are needed rather than presuming they are always required.
 - Performance Criteria 3.1 and 3.2 minor edits.
 - o PC 5.3 moved to PC 3.5 to reflect flow of work.
 - o PC 4.1 edited to reflect Working Group advice on wording.
 - PC 4.8 Minor simplification edit
- Range of Conditions (ROC)
 - o WHS regulatory requirements added
- Performance Evidence -.
 - New points added to align with international standards
 - Clarification on frequency and volume
 - o Removed reference to Standards.
- Knowledge Evidence knowledge of test limitations added to first point. Eight points edited to make it clear that it applies to the test equipment and materials. Last point deleted as a duplication.
- Assessment conditions Third dot point clarified, and last dot point removed as it is a duplication of the first dot point.

MEM24003 (MEM18111) Perform basic magnetic particle testing.

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- Application Unit previously applied to both tradespersons and technicians. Application has been
 changed to more clearly indicate application to tradespersons and apprentices only. One paragraph has
 been deleted as content is more appropriate to Performance and Knowledge Evidence.
- PC 3.4 new PC minimising environmental impact of the NDT test
- PC 3.6 new PC on de-magnetisation of test material
- ROC Two new rows added. Two rows clarify scope of magnetic media and magnetic particle testing equipment.
- KE previous 3rd point deleted as it was a duplication".
- Assessment conditions Third dot point clarified, and last dot point removed as it is a duplication of the first dot point

MEM24004 Perform magnetic particle testing. (MEM24024 - Undertake magnetic particle tests)

- Title changed to 'Undertake magnetic particle tests'.
- Application
 - o Error reference in second paragraph to re-assessment of competency deleted.
 - Industry coverage advice in third paragraph updated.
 - Clarification on the cohort of technicians this unit applies to.
 - Reference to technical standards updated.
- Prerequisites MEM16006 and its prerequisite MEM13015 added.
- Elements and PCs
 - PC1.1 edited for clarity and reference to risk assessment deleted as this task is not supported in PE or KE.
 - o PC 5.1 moved to PC 2.2 re PPE and safe work practices.
 - o PC2.3 Changed
 - PC 2.4 edited to recognise that the skill is in determining whether special access requirements are needed rather than presuming they are always required.
 - o PC 2.5 Clarification added
 - o PC 5.2 moved to PC 3.6 to reflect flow of work.
 - o PC 4.2,4.3 and 4.4 Clarified
 - o PC 4.7 now PC 3.7. New PC 4.7 added for consistency with technical standards.
 - o PC 4.1 edited to reflect Working Group advice on wording.
- ROC
 - Minor clarification edits to row 1.
- PE Requirements for number and type of assessment tasks updated to be consistent with technical standards
- KE multiple changes to clarify the connection to the international standards.
- Assessment conditions Third dot point clarified, and last dot point removed as it is a duplication of the first dot point.

MEM24005 (MEM18112) Perform basic eddy current testing.

- Application As this unit previously applied to both tradespersons and technicians, the application has been changed to more clearly indicate application to tradespersons and apprentices only. One paragraph has been deleted as content is more appropriate to Performance and Knowledge Evidence. Sentence in 2nd paragraph covering re-assessment of competency has been deleted as it is an error.
- ROC New row added to clarify the scope of preparation processes.
- KE Points considered a duplication of other knowledge evidence have been deleted

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 Assessment conditions – Third dot point clarified, and last dot point removed as it is a duplication of the first dot point.

MEM24006 Perform eddy current testing. (MEM24026 - Undertake eddy current tests)

- Title changed to 'Undertake eddy current tests'.
- Application
 - reference error in second paragraph to re-assessment of competency deleted
 - o industry coverage advice in third paragraph updated.
 - o reference to technical standards updated.
- Prerequisites MEM16006 and its prerequisite MEM13015 added.
- Elements and PCs -
 - PC1.1 edited for clarity and reference to risk assessment deleted as this task is not supported in PE or KE.
 - o PC 5.1 moved to PC 2.2 re PPE and safe work practices.
 - PC 2.4 edited to recognise that the skill is in determining whether special access requirements are needed rather than presuming they are always required.
 - o PC 2.5 Minor edit to remove duplication.
 - o PC 3.5 moved from PC 5.2.
 - PC 3.6 added for consistency with technical standards.
 - o PC 4.1 edited to reflect Working Group advice on wording.
- ROC
 - references to technical standards updated.
 - o 1 new row added Test Equipment
- PE Requirements for number and type of assessment tasks updated to be consistent with technical standards.
- KE Points reorganised and clarified to better align to new international standards.
- Assessment conditions Third dot point clarified, and last dot point removed as it is a duplication of the first dot point.

MEM24007 (MEM18113) Perform ultrasonic thickness testing.

- Application Unit previously applied to both tradespersons and technicians. Application has been
 changed to more clearly indicate application to tradespersons and apprentices only. One paragraph has
 been deleted as content is more appropriate to Performance and Knowledge Evidence.
- PC New PC 3.3 added to be consistent with knowledge evidence on use of calibration blocks
- ROC New row added to clarify the scope of ultrasonic equipment used in thickness testing.
- KE Point considered a duplication deleted. Minor changes made to clarify some terms and additional wording included on discontinuities and abnormalities identified through thickness testing.
- Assessment conditions Third dot point clarified, and last dot point removed as it is a duplication of the first dot point

MEM24008 Perform ultrasonic testing. (MEM24028 - Undertake ultrasonic tests)

- Title changed to 'Undertake ultrasonic tests'.
- Application
 - o Error reference in second paragraph to re-assessment of competency deleted.
 - Industry coverage advice in third paragraph updated.
 - o Reference to technical standards updated.
 - Prerequisites MEM16006 and its prerequisite MEM13015 added.

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- Elements and PCs
 - PC1.1 edited for clarity and reference to risk assessment deleted as this task is not supported in PE or KE.
 - o PC 5.1 moved to PC 2.2 re PPE and safe work practices.
 - PC 2.4 edited to recognise that the skill is in determining whether special access requirements are needed rather than presuming they are always required.
 - o Reference to standard operating procedures (SOPs) added to PCs 3.2, 3.3, and 3.7.
 - o PC 4.1 edited to reflect Working Group advice on wording.
 - o PC 4.5 deleted as it duplicates PC 4.4.
- ROC
 - o 2 new rows added
- PE Requirements for number and type of assessment tasks updated to be consistent with technical standard".
- KE Points reorganised and clarified to better align to new international standards
- Assessment Conditions
 - Wording changed to align with the new title of the unit.
 - Third dot point clarified
 - o last dot point removed as it is a duplication of the first dot point.

MEM24009 (MEM18114) Perform basic radiographic testing.

- Application Unit previously applied to both tradespersons and technicians. Application has been
 changed to more clearly indicate application to tradespersons and apprentices only. Reference to
 knowledge of metallurgy has been deleted as this was intended for technicians and is now not relevant to
 the revised unit application. References to regulations and standards have been made clearer including
 regulations covering ionizing radiation.
- Elements and PCs
 - o PC 4.1 deleted as it is better covered as knowledge evidence.
 - New PC 4.1 changed to make explicit skill in minimising radiation exposure applies to self and others.
 - Element 5 and Pcs added in reference to reporting of results.
- ROC New row added to provide the range of radiographic film covered by the unit.
- KE Duplication point deleted, and minor clarifications of wording added.
- Assessment conditions Third dot point clarified, and last dot point removed as it is a duplication of the first dot point

MEM24010 Perform radiographic testing. (MEM24030 - Undertake radiographic tests)

- Title changed to 'Undertake radiographic tests'.
- Application
 - o Reference error in second paragraph to re-assessment of competency deleted.
 - o Industry coverage advice in third paragraph updated.
 - o Exclusion statement re digital and computed radiography added.
 - o Reference to technical standards updated.
- Prerequisites MEM16006 and its prerequisite MEM13015 added.
- Elements and PCs
 - PC1.1 edited for clarity and reference to risk assessment deleted as this task is not supported in PE or KE.
 - o PC 1.2 moved to PC 2.2

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- PC 2.4 edited to recognise that the skill is in determining whether special access requirements are needed rather than presuming they are always required.
- o PC 4.8 moved to PC3.6.
- o PC 4.1 edited to reflect Working Group advice on wording.
- o PC 4.8 simplified.
- Element 6 embedded into other elements
- ROC
 - Two rows added.
- PE -
 - Requirements for number and type of assessment tasks updated to be consistent with technical standards.
 - Evidence requirements for radiographic safe work practices and controls added as transfer from ROC.
 - 7th point deleted as a duplication of the fifth point.
- KE Knowledge requirements for radiation safe work practices and controls added. Other minor edits made for clarification.
- Assessment conditions Third dot point clarified, and last dot point removed as it is a duplication of the first dot point.

MEM24011 Establish non-destructive tests. (MEM24031 - Establish procedures for non-destructive tests)

- Application The Application has been edited to remove ambiguity and to make it clear that it is the NDT
 applications that are being researched and not the test techniques. The sentence in 2nd paragraph
 covering re-assessment of competency has been deleted as it is an error. The industry application
 references have been simplified and the references to technical standards updated. An
- Prerequisites
 - additional pre-requisite MEM30007 'Select common engineering materials' has been added based on requirements in the updated Australian NDT technical standards.
 - o five prerequisites removed
 - o codes for all prerequisites updated.
- Elements and PCs
 - Element 1 simplified
 - o PC 2.2 has been reworded to be consistent with detail required in PE and KE
 - o Element 3 Clarified
 - o Element 4 wording has been simplified.
 - o PC 4.7 added to be consistent with technical standards requirements.
 - Element 5 reworded to align with other changes.
- ROC Row added to clarify scope of relevant information from previous and past NDT tests.
- PE First point amended as the point is covered by the reference to establishing NDT test procedures.
 Reference to materials analysis added to 3rd point for consistency with technical standards. Other point reworded for clarity.
- KE Changes made for clarification.
- Assessment conditions Third dot point clarified, and last dot point removed as it is a duplication of the first dot point

MEM24014 Perform thermography tests. (MEM24033 - Undertake thermography tests)

- Title changed to 'Undertake thermography tests' to be consistent with other NDT technician units.
- Application Advice on selection of other units updated. Reference to technical standards updated.

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- Prerequisites MEM16006 added as a prerequisite along with its prerequisite of MEM13015.
- Elements and PCs
 - o Element 1 changed to 'Establish..' to be consistent with unit title.
 - o PC 1.1 made more specific.
 - o PC 1.2 and 1.3 combined and moved to PC 2.2.
 - PC 2.3 edited to recognise that the skill is in determining whether special access requirements are needed rather than presuming they are always required.
 - o PC 2.4 'material' changed to inspection area' as this more accurately reflects the task.
 - PC 4.1 added based on Working Group advice.
- ROC First row removed for duplication.
- KE KE first sentence edited for additional clarity.
- Assessment conditions Third dot point clarified, and last dot point removed as it is a duplication of the first dot point

MEM24015 Perform digital and computed radiography. (MEM24034 - Undertake digital and computed radiography)

- Title changed to 'Undertake digital and computed radiography' to be consistent with other NDT technician units.
- Application Minor edits to clarify industry application. Advice on selection of other units updated.
 Reference to technical standards updated.
- Prerequisites MEM11011 and MEM18001 deleted. Code for MEM13018 corrected.
- Elements and PCs
 - Element 1 changed to 'Establish..' to be consistent with unit title.
 - o PC 1.1 made more specific.
 - o PC 1.2 and 1.3 combined and moved to PC 2.2.
 - o Minor edit to PC 2.3.
 - PC 3.1 edited to recognise that the PC also requires determining whether special access requirements are needed.
 - o PC 6.1 added based on Working Group advice.
- ROC First row deleted for duplication.
- PE PE has been edited to be consistent with technical standards requirements including more specific
 PE point on safe work practices for minimising radiation exposure.
- KE more specific KE point on knowledge of safe work practices and controls for minimising radiation exposure
- Assessment conditions Third dot point clarified, and last dot point removed as it is a duplication of the first dot point.

MEM24016 Perform eddy current array tests. (MEM24035 - Undertake eddy current array tests)

- Title changed to 'Undertake eddy current array tests' to be consistent with other NDT technician units.
- Application Minor edits to clarify industry application. Advice on selection of other units updated.
 Reference to technical standards updated.
- Prerequisites MEM11011 and MEM18001 deleted. MEM30007 added.
- Elements and PCs
 - o Element 1 changed to 'Establish..' to be consistent with unit title.
 - o PC 1.1 made more specific.
 - o PC 1.2 and 1.3 combined and moved to PC 2.2.

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- PC 2.3 edited to recognise that the skill is in determining whether special access requirements are needed rather than presuming they are always required.
- PC 4.1 added based on Working Group advice.
- ROC First row deleted for duplication.
- PE PE has been edited to be consistent with technical standards requirements and include volume and frequency requirements.
- KE First sentence has been edited for additional clarity.
- Assessment conditions Third dot point clarified, and last dot point removed as it is a duplication of the first dot point.

MEM24017 Perform visual testing to non-destructive testing standards. (MEM24036 - Undertake visual testing to non-destructive testing standards)

- Title changed to 'Undertake visual testing to non-destructive testing standards' to be consistent with other NDT technician units.
- Application Minor edits to clarify industry application. Advice on selection of other units updated.
 Reference to technical standards updated.
- Prerequisites MEM24012 deleted.
- Elements and PCs
 - o Element 1 changed to 'Establish..' to be consistent with unit title.
 - o PC 1.1 made more specific.
 - o PC 1.2 and 1.3 combined and moved to PC 2.2.
 - PC 2.3 edited to recognise that the skill is in determining whether special access requirements are needed rather than presuming they are always required.
 - o PC 2.4 deleted as it duplicated PC 1.1.
 - o PC 5.1 edited based on Working Group advice.
- ROC First row deleted for duplication.
- PE has been edited to be consistent with technical standards requirements.
- Assessment conditions Third dot point clarified, and last dot point removed as it is a duplication of the first dot point.

MEM24018 Perform advanced ultrasonic testing. (MEM24037 - Undertake advanced ultrasonic testing)

- Title changed to 'Undertake advanced ultrasonic testing' to be consistent with other NDT technician units.
- Application Minor edits to clarify industry application. Advice on selection of other units updated.
 Reference to technical standards updated.
- Prerequisites MEM11011 and MEM18001 deleted. MEM30007 added.
- Elements and PCs
 - Element 1 changed to 'Establish..' to be consistent with unit title.
 - o PC 1.1 made more specific.
 - o PC 1.2 and 1.3 combined and moved to PC 2.2.
 - o PC1.5 deleted as a duplication of PC1.1
 - PC 2.3 edited to recognise that the skill is in determining whether special access requirements are needed rather than presuming they are always required.
 - o PC 2.4 added 'inspection areas' for clarity.
 - o PC 5.1 added based on Working Group advice.
- ROC First row deleted for duplication.
- PE has been edited to be consistent with technical standards requirements.
- KE First sentence has been edited for additional clarity

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 Assessment conditions – Third dot point clarified, and last dot point removed as it is a duplication of the first dot point.

MEM24019 (MEM24038) Apply codes and standards to non-destructive testing.

- Application Reference to technical standards updated.
- Prerequisites MEM09229 deleted.
- KE First sentence has been edited for additional clarity.
- Assessment conditions Third dot point clarified, and last dot point removed as it is a duplication of the first dot point.

MEM24020 (MEM24039) Apply materials technology principles to non-destructive tests.

- Application Reference to application to Level 2 and 3 technicians deleted as these levels are not related to VET but to the technical standards. The unit is open to all NDT technicians to study. Reference to technical standards updated.
- ROC Last row removed for duplication

MEM24040 Undertake basic penetrant tests (new unit)

This new unit reflects the requirements of the new technical standards.

MEM24041 Undertake basic magnetic particle tests (new unit)

This new unit reflects the requirements of the new technical standards.

MEM24042 Undertake basic eddy current tests (new unit)

This new unit reflects the requirements of the new technical standards.

MEM24043 Undertake ultrasonic thickness tests (new unit)

This new unit reflects the requirements of the new technical standards.

MEM24044 Undertake basic radiographic tests (new unit)

This new unit reflects the requirements of the new technical standards.

Note: Initial consultation with Technical Committee, recommended the unit (MEM24012 Apply metallurgical Principles) is no longer considered as requiring a revision which was originally part of the project activity i.e. As a result, the unit has been removed as a prerequisite in the NDT revised units.

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Non-Destructive Testing Skills Project – Mapping Information

N.B. The mapping information below has been updated as part of phase 3 (incorporating feedback) stage.

Qualification mapping to MEM Release 5.0

Current code	Current title	New code	New title	Component type	Status	E = Equivalent NE = Non- Equivalent
MEM50422	Diploma of Engineering – Non- Destructive Testing	MEM50425	Diploma of Engineering – Non- Destructive Testing	Qual	Revised	E

Units of Competency mapping to MEM Release 5.0

Current code	Current title cod		New title	Component type	Status	E = Equivalent NE = Non- Equivalent
MEM24001	Perform basic penetrant testing	MEM18010	Perform basic penetrant testing	<u>UoC</u>	Revised	E
MEM24002	Perform penetrant testing	MEM24022	Undertake penetrant tests	<u>UoC</u>	Revised	E
MEM24003	Perform basic magnetic particle testing	MEM18111	Perform basic magnetic particle testing	<u>UoC</u>	Revised	E
MEM24004	Perform magnetic particle testing	MEM24024	Undertake magnetic particle tests	<u>UoC</u>	Revised	E

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MEM24005	Perform basic eddy current testing	MEM18112	Perform basic eddy current testing	<u>UoC</u>	Revised	Е
MEM24006	Perform eddy current testing	MEM24026	Undertake eddy current tests	<u>UoC</u>	Revised	Е
MEM24007	Perform ultrasonic thickness testing	MEM18113	Perform ultrasonic thickness testing	<u>UoC</u>	Revised	E
MEM24008	Perform ultrasonic testing	MEM24028	Undertake ultrasonic tests	<u>UoC</u>	Revised	Е
MEM24009	Perform basic radiographic testing	MEM18114	Perform basic radiographic testing	<u>UoC</u>	Revised	E
MEM24010	Perform radiographic testing	MEM24030	Undertake radiographic tests	<u>UoC</u>	Revised	Е
MEM24011	Establish non-destructive tests	MEM24031	Establish procedures for non-destructive tests	<u>UoC</u>	Revised	Е
MEM24014	Perform thermography tests	MEM24033	Undertake thermography tests	<u>UoC</u>	Revised	E
MEM24015	Perform digital and computed radiography	MEM24034	Undertake digital and computed radiography	<u>UoC</u>	Revised	Е
MEM24016	Perform eddy current array tests	MEM24035	Undertake eddy current array tests	<u>UoC</u>	Revised	E
MEM24017	Perform visual testing to non-destructive testing standards	MEM24036	Undertake visual testing to non-destructive testing standards	<u>UoC</u>	Revised	Е
MEM24018	Perform advanced ultrasonic testing	MEM24037	Undertake advanced ultrasonic testing	<u>UoC</u>	Revised	Е
MEM24019	Apply codes and standards to non- destructive testing	MEM24038	Apply codes and standards to non- destructive testing	<u>UoC</u>	Revised	Е

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MEM24020	Apply materials technology principles to non-destructive tests	MEM24039	Apply materials technology principles to non- destructive tests	<u>UoC</u>	Revised	Е
		MEM24040	Undertake basic penetrant tests	UoC	New	No equivalent unit
		MEM24041	Undertake basic magnetic particle tests	UoC	New	No equivalent unit
		MEM24042	Undertake basic eddy current tests	UoC	New	No equivalent unit
		MEM24043	Undertake ultrasonic thickness tests	UoC	New	No equivalent unit
		MEM24044	Undertake basic radiographic tests	UoC	New	No equivalent unit

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General Maintenance Updates in the MEM Training Package - What's changed.

Training package components

QUALIFICATIONS:

Minor Changes

The following qualifications have had unit codes updated in line with unit code and title changes reflected in the **Non-Destructive Testing Skills Project**.

MEM30119	Certificate III in Engineering - Production Systems
MEM30219	Certificate III in Engineering - Mechanical Trade
MEM30522	Certificate III in Engineering – Technical
MEM31922	Certificate III in Engineering – Fabrication Trade
MEM40119	Certificate IV in Engineering

- Additionally, points corrected for unit MEM27003 Overhaul engine fuel system components.
- Unit MEM05065 Maintain weld records added to Group B electives.

MEM50119 Diploma of Engineering - Advanced Trade

- Additionally, inclusion of two additional statements added in the qualification to support Registered Training Organisations.
- Units MEM05061, MEM05062, MEM05065, MEM05066 and MEM05068 added in Group A to meet prerequisite requirements.

MEM50222	Diploma of Engineering – Technical
MEM50522	Diploma of Engineering – Materials
MEM60122	Advanced Diploma of Engineering

The unit MSTTX3002 Contribute to textile production process improvements has been deleted from elective table Group A, as the unit is marked as Deleted on the national training register (training.gov.au).

MEM31822 Certificate III in Engineering - Textile Mechanic

Note: All the qualifications above will have the next release number respectively.

SKILL SET:

Minor changes

MEMSS00002 (MEMSS00003) Non-Destructive Testing - Level 2 NDT practitioner



Description changed to identify the relevant techniques that apply. Unit codes and titles updated in line with changes to the NDT unit codes and titles.

Note: The Skill Set will have a new release number and code, equivalent.

UNITS OF COMPETENCY:

Minor Changes

Following feedback from stakeholders, the following units of competency were updated as part of maintenance of the MEM training package.

MEM05004 Perform routine oxy fuel gas welding

Unit code updated in Application.

MEM05049 Perform routine gas tungsten arc welding

• Unit code updated in Application.

MEM05050 Perform routine gas metal arc welding

• Unit code updated in Application.

MEM05052 Apply safe welding practices

Unit code updated in Application.

MEM05056 Perform routine flux core arc welding

• Unit code updated in Application.

MEM05057 Perform routine submerged arc welding

Unit code updated in Application.

MEM05063 Write and proof robotic welding system programs

• Unit code updated in Application.

MEM05069 Undertake advanced weld repair and maintenance

Unit title for the unit code MEM05061 corrected in the prerequisites.

MEM05077 Perform welding inspection

• Unit title for the unit code MEM05061 corrected in the prerequisites.

MEM05081 Perform welds to code standards using gas tungsten arc welding process

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 Unit title for the unit code MEM05061 corrected in the Application. References to manual metal arc welding (MMAW) updated to gas tungsten arc welding (GTAW).

MEM11010 Operate mobile load shifting equipment

• Unit code updated in Application.

MEM11023 Operate a bridge and gantry crane

• Unit code updated in Application.

MEM11024 Undertake basic rigging

• Unit code updated in Application.

MEM11025 Operate a non-slewing mobile crane of greater than three tonnes capacity

Unit code updated in Application.

MEM15004 Perform inspection

Unit code updated in Application.

MEM18051 Fault find and repair/rectify complex electrical circuits

• Dual banding removed.

MEM19018 Repair jewellery items

Unit code updated in Application.

MEM27025 Maintain, diagnose and rectify fluid power controls in mobile equipment

• Unit title for the unit code MEM27017 corrected in the prerequisites.

MEM29002 Commission a cyber-physical system

Unit title corrected in Assessment Conditions.

MEM50002 Work safely on marine craft

• Unit code updated in Application.

MEM14087 Apply manufactured product design techniques

Metadata updated.

MEM48017 Monitor blast furnace operations

Metadata updated.

MEM234031 Manage installation, commissioning or modification of machines and equipment

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Metadata updated.

Note: All the units of competency will have the next release number respectively.

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Maintenance Updates to MEM Training Package – Mapping Information

Qualifications mapping to MEM Release 5.0

Current code	Current title	New code	New title	Component type	Status	E = Equivalent NE = Non- Equivalent
MEM30119	Certificate III in Engineering - Production Systems (Release 2)			Qual	<u>Updated - Release 3</u>	Е
MEM30219	Certificate III in Engineering - Mechanical Trade (Release 3)			Qual	Updated - Release 4	E
MEM30522	Certificate III in Engineering – Technical (Release 2)			Qual	Updated - Release 3	Е
MEM31922	Certificate III in Engineering – Fabrication Trade (Release 1)			Qual	Updated – Release 2	Е
MEM40119	Certificate IV in Engineering (Release 2)			Qual	<u>Updated - Release 3</u>	Е
MEM50119	Diploma of Engineering - Advanced Trade (Release 2)			Qual	Updated - Release 3	Е
MEM50222	Diploma of Engineering – Technical (Release 1)			Qual	<u>Updated - Release 2</u>	E
MEM50522	Diploma of Engineering – Materials (Release 1)			Qual	<u>Updated - Release 2</u>	E
MEM60122	Advanced Diploma of Engineering (Release 1)			Qual	<u>Updated - Release 2</u>	E
MEM31822	Certificate III in Engineering - Textile Mechanic (Release 1)			Qual	Updated - Release 2	E

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Skill Set mapping to MEM Release 5.0

Current code	Current title	New code	New title	Component type	Status	E = Equivalent NE = Non- Equivalent
MEMSS00002	Non-Destructive Testing - Level 2 NDT practitioner	MEMSS00003	Non-Destructive Testing - Level 2 NDT practitioner	<u>SS</u>	<u>Updated –</u> <u>Release 1</u>	Е

Units of Competency mapping to MEM Release 5.0

Current code	Current title	New code	New title	Component type	Status	E = Equivalent NE = Non- Equivalent
MEM05004	Perform routine oxy fuel gas welding (Release 1)			<u>UoC</u>	<u>Updated -</u> <u>Release 2</u>	Е
MEM05049	Perform routine gas tungsten arc welding (Release 1)			<u>UoC</u>	<u>Updated -</u> <u>Release 2</u>	Е
MEM05050	Perform routine gas metal arc welding (Release 1)			<u>UoC</u>	<u>Updated -</u> <u>Release 2</u>	Е
MEM05052	Apply safe welding practices (Release 1)			<u>UoC</u>	<u>Updated -</u> <u>Release 2</u>	Е
MEM05056	Perform routine flux core arc welding (Release 1)			<u>UoC</u>	<u>Updated -</u> <u>Release 2</u>	E

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MEM05057	Perform routine submerged arc welding (Release 1)	<u>UoC</u>	<u>Updated -</u> <u>Release 2</u>	Е
MEM05063	Write and proof robotic welding system programs (Release 1)	<u>UoC</u>	<u>Updated -</u> <u>Release 2</u>	Е
MEM11010	Operate mobile load shifting equipment (Release 1)	<u>UoC</u>	<u>Updated -</u> <u>Release 2</u>	Е
MEM11023	Operate a bridge and gantry crane (Release 1)	<u>UoC</u>	<u>Updated -</u> <u>Release 2</u>	Е
MEM11024	Undertake basic rigging (Release 1)	<u>UoC</u>	<u>Updated -</u> <u>Release 2</u>	Е
MEM11025	Operate a non-slewing mobile crane of greater than three tonnes capacity (Release 1)	<u>UoC</u>	<u>Updated -</u> <u>Release 2</u>	Е
MEM15004	Perform inspection (Release 1)	<u>UoC</u>	<u>Updated -</u> <u>Release 2</u>	Е
MEM18051	Fault find and repair/rectify complex electrical circuits (Release 1)	<u>UoC</u>	Updated - Release 2	Е
MEM19018	Repair jewellery items (Release 1)	<u>UoC</u>	<u>Updated -</u> <u>Release 2</u>	Е
MEM50002	Work safely on marine craft (Release 1)	<u>UoC</u>	Updated - Release 2	Е
MEM14087	Apply manufactured product design techniques (Release 1)	<u>UoC</u>	<u>Updated -</u> <u>Release 2</u>	Е
MEM234031	Manage installation, commissioning or modification of machines and equipment (Release 1)	<u>UoC</u>	Updated - Release 2	Е
MEM48017	Monitor blast furnace operations (Release 1)	<u>UoC</u>	<u>Updated -</u> <u>Release 2</u>	Е

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MEM05069	Undertake advanced weld repair and maintenance (Release 1)		<u>UoC</u>	<u>Updated -</u> <u>Release 2</u>	E
MEM05077	Perform welding inspection (Release 1)		<u>UoC</u>	<u>Updated -</u> <u>Release 2</u>	Е
MEM05081	Perform welds to code standards using gas tungsten arc welding process (Release 1)		<u>UoC</u>	<u>Updated -</u> <u>Release 2</u>	Е
MEM27025	Maintain, diagnose and rectify fluid power controls in mobile equipment (Release 1)		<u>UoC</u>	<u>Updated -</u> <u>Release 2</u>	Е
MEM29002	Commission a cyber-physical system (Release 1)		<u>UoC</u>	<u>Updated -</u> <u>Release 2</u>	Е

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