

This report provides a summary of the Public and Government consultation, feedback received, and actions undertaken in response.

The summary has been developed through analysis of individual items of feedback to identify common themes, areas of consensus and divergent views. The analysis along with expert advice has also informed the actions taken in response to the feedback.

Where feedback was not implemented a rationale has been provided.

Analytics covering broad consultation

Consultation Activities

Public and Government Consultation was open for this project from: **03 June until 28 June 2024**. Manufacturing Alliance conducted three webinar information sessions to gather feedback with the aim to reach broad consensus from a variety of stakeholders.

Documents provided below:

- Appendix A - List of Stakeholders Consulted
- Appendix B - High Level Consultation Log
- Appendix C - Detailed Consultation Log
- Appendix D - List of Stakeholders Consulted through UEEA Training Council Network
- Appendix E – Summary of Consultation Feedback.

Appendix A - List of Stakeholders Consulted

Organisation	Type	State
Rio Tinto	Employer	WA
Protonautics Pty Ltd	Employer	QLD
NSW Department of Education	Government	NSW
QMS NDT & NACE	Employer	SA
PWR Advanced Cooling Technology	Employer	QLD
Manufacturing Skills Queensland	State/Territory representative	QLD
TAFE NSW	RTO	NSW
Industry Skills Advisory Council Northern Territory (ISACNT)	Industry Advisory Body	NT
DTD Engineering	Employer	NSW
TICS	Employer	QLD
South Metro TAFE	RTO	WA
BDA	Employer	QLD
Sunitafe	RTO	VIC
Metso	Employer	WA
TAFE SA	RTO	SA
Wodonga TAFE	RTO	VIC
Box Hill Institute (Victorian Skills Authority)	Industry Advisory Body	VIC
Boeing Defence Australia	Government	QLD
Open Welding	Employer	VIC
TAFE Queensland	RTO	QLD
Australian Institute of Engineering	RTO	VIC
Institute of Research & Learning	RTO	NSW
DCS	Government	NSW
Defence	Government	ACT
Australian Submarine Corporation (ASC)	Government	SA
Department of Training and Workforce Development	Government	WA
MESAB	Industry Advisory Body	VIC
Qantas Engineering	Employer	NSW
A W Bell Pty Ltd	Employer	VIC
Wodonga Institute of TAFE	RTO	VIC
ATTAR	Employer	VIC
Manufacturing Skills Australia	Industry Advisory Body	NSW

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Appendix B – High Level Consultation Log

Date	Organisation	Type	State	Channel	Component	Feedback	Response
06 March 2024	Australian Institute for Non-destructive Testing (AINDT)	Association/SME	National	Technical Committee meeting	All	The Committee agreed to Manufacturing Alliance proposal to release the draft training package product components for Public and Government Consultation for a period of four weeks.	Thank you for your support.
06 March 2024	TAFE NSW	Educational expert/RTO	NSW	Technical Committee meeting	All	The Committee agreed to Manufacturing Alliance proposal to release the draft training package product components for Public and Government Consultation for a period of four weeks.	Thank you for your support.
06 March 2024	Australian Defence Force	Employer/SME	National	Technical Committee meeting	All	The Committee agreed to Manufacturing Alliance proposal to release the draft training package product components for Public and Government Consultation for a period of four weeks.	Thank you for your support.
08 March 2024	Ai Group	Industry Association/peak	National	General Manufacturing and Engineering Interim Standing Committee meeting	All	The Committee approved the release of draft components for public and government consultation.	Thank you for your support.

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Date	Organisation	Type	State	Channel	Component	Feedback	Response
08 March 2024	Australian Manufacturing Workers Union	Union	National	General Manufacturing and Engineering Interim Standing Committee meeting	All	The Committee approved the release of draft components for public and government consultation.	Thank you for your support.
08 March 2024	Ai Group	Industry Association/peak	National	General Manufacturing and Engineering Interim Standing Committee meeting	All	The Committee approved the release of draft components for public and government consultation.	Thank you for your support.
08 March 2024	Australian Manufacturing Workers Union	Union	National	General Manufacturing and Engineering Interim Standing Committee meeting	All	The Committee approved the release of draft components for public and government consultation.	Thank you for your support.
03 – 28 June	Utilities, Engineering, Electrical and Automotive Training Council Inc (UEEA)	Industry Association/peak	National	Various – email, phone, newsletter	All	The UEEA have consulted with 63 members in WA. There were no concerns raised surrounding the content of the revised and new units. A list of Stakeholders has been added to Appendix D.	Thank you for your support.
19 Aug	AMWU	Union	National	General Manufacturing and Engineering Interim Standing Committee meeting	MEM24021 MEM24023 MEM24025 MEM24027 MEM24029	The committee have recommended an update to the level 1 trade unit codes, so they don't fall within the 24 series, to avoid confusion with RTOs accidentally selecting inappropriate units for qualifications.	The changes to the unit codes have been updated for the 5 units. The new codes are reflected in the affected qualifications including the Companion Volume.

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Date	Organisation	Type	State	Channel	Component	Feedback	Response
21 Aug	Ai Group	Industry Association/peak	National	General Manufacturing and Engineering Interim Standing Committee meeting	MEM24021 MEM24023 MEM24025 MEM24027 MEM24029	The committee have recommended an update to the level 1 trade unit codes, so they don't fall within the 24 series, to avoid confusion with RTOs accidentally selecting inappropriate units for qualifications.	The changes to the unit codes have been updated for the 5 units. The new codes are reflected in the affected qualifications including the Companion Volume.

Appendix C - Detailed Consultation Log

Date	Organisation	Type	State	Channel	Component	Feedback	Response
12 June 2024	Rio Tinto	Employer	WA	Feedback Form	MEM24020	Just a note on MEM24039 Materials. There doesn't look like there's a requirement to teach welding processes. There's manufacturing process topics – forgings, casting etc but I can't see weldment process e.g. MMAW, GMAW, FCAW, SAW etc. Or is it included in this "MEM24012 Apply metallurgical principles" which wasn't part of the review?	The inspection of welds is addressed in the range of conditions where the defects in weldments are listed. There are two points in the knowledge evidence that also address fusion welding.
17 June 2024	Open Welding	Employer	VIC	Feedback Form	MEM24001 MEM24002 MEM24040	It is a redundant activity. There is simpler tech around now that nullifies its purpose.	The presence of new technology is noted, however there are significant sections of industry that still use dye penetrant processes that need to be supported by the MEM training package.
17 June 2024	Open Welding	Employer	VIC	Feedback Form	MEM24004	Nothing to add	Thank you for your support.

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Date	Organisation	Type	State	Channel	Component	Feedback	Response
17 June 2024	Open Welding	Employer	VIC	Feedback Form	MEM24019	AUS/NZ and ISO standards don't give enough weight to newer NDT methods.	The scope of this project addresses the alignment of NDT units of competency to better support the changes in ISO's affecting the classification of technician levels. Additional proposed changes to units have been included in this work to provide awareness of new methods and techniques.
17 June 2024	Open Welding	Employer	VIC	Feedback Form	MEM50424	There are NDT competencies that can be utilised that don't need a formal diploma.	Noted and thank you for your feedback.
17 June 2024	Open Welding	Employer	VIC	Feedback Form	Skill Set		
17 June 2024	Open Welding	Employer	VIC	Feedback Form	CVIG	Haven't seen it.	The companion volume implementation guides can be viewed through the Manufacturing Alliance website on the NDT project page.
17 June 2024	Open Welding	Employer	VIC	Feedback Form	General	In the welding space there is a huge amount of waste in NDT practice that could be removed and help the industry be more efficient.	Your feedback and the accompanying documentation provided have been noted. Thank you.
18 June 2024	Manufacturing Skills Queensland	State/Territory representative	QLD	Feedback Form	Qual	Agree with proposed changes	Thank you for your support.
18 June 2024	Manufacturing Skills Queensland	State/Territory representative	QLD	Feedback Form	Skill Set	Agree with proposed changes	Thank you for your support.

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Date	Organisation	Type	State	Channel	Component	Feedback	Response
18 June 2024	Manufacturing Skills Queensland	State/Territory representative	QLD	Feedback Form	CVIG	Agree with proposed changes	Thank you for your support.
18 June 2024	PWR Advanced Cooling Technology	Employer	QLD	Information Session	MEM50424	I have noticed you have done some work on the Diploma of NDT becoming MEM50424. I notice there is no RTO that has the qualification on scope, is there something in the works in the program?	The qualification was released just over 12 months and RTOs may not have implemented this qualification yet.
18 June 2024	QMS NDT & NACE	Employer	SA	Information Session	General	Will there be some distance learning i.e. theoretical classrooms online NDT testing methods?	We note your feedback however, this is outside the scope of the current project.

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Date	Organisation	Type	State	Channel	Component	Feedback	Response
21 June 2024	Australian Institute of Engineering	RTO	VIC	Feedback Form	MEM24040 MEM24041 MEM24042 MEM24043 MEM24044	While I appreciate the effort to expand and update the curriculum, I do not agree with the proposed new unit MEM24040 Undertake basic penetrant tests at this time. We currently have foundational units that cover similar content, and it is unclear how this new unit would add distinct value or address a specific gap not already covered. Although it is mentioned that this new unit reflects the requirements of the new technical standards, it raises the question of why these requirements were not integrated into the existing units to enhance their credibility. Understanding the rationale behind the creation of MEM24040, including its objectives and differentiation from existing units, would help in assessing its necessity and potential impact.	The unit MEM24001 Perform basic penetrant testing applied to both welders and other tradespersons testing their own work and also Level 1 NDT technicians. After a close examination of the new technical standards and guidance material produced by AINDT and made available to Manufacturing Alliance, it was decided that a single unit serving both occupational groups was no longer appropriate. A new unit MEM24040 Undertake basic penetrant tests was developed for Level 1 NDT technicians and aligned to the new technical standards. The title for the unit for tradespersons remained as "Perform basic penetrant tests". The same changes were made for all of the previous basic test units.
21 June 2024	Australian Institute of Engineering	RTO	VIC	Feedback Form	Skill Set	Agree with proposed changes	Thank you for your support.

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Date	Organisation	Type	State	Channel	Component	Feedback	Response
21 June 2024	Australian Institute of Engineering	RTO	VIC	Feedback Form	CVIG	Agree with proposed changes	Thank you for your support.
24 June 2024	TAFE Queensland	RTO	QLD	Information Session	General	As the updated units are proposed to change and sit in other qualifications, will those qualifications be updated?	Affected qualifications will have an updated release number and release date, as part of Training Package Maintenance illustrated on our website under the NDT project page heading 'Training Package Maintenance – Minor Changes.'
24 June 2024	Open Welding	Employer	VIC	Information Session	General	Quoting ISO 9712 discounts for previous experience. Do you incorporate the structure into the units?	Technical standards apply in AINDT to recognise candidates under their structure to issue certification. Initial consultation with AINDT agreed to align the technical standards as much as practicable taking into account compliance within the Training package organising framework (TPOF).
24 June 2024	Open Welding	Employer	VIC	Information Session	General	What is the ambition driving this? Are you trying to get more technicians qualification for NDT?	The intent of this project was to align MEM NDT units with the ISO technical standards.

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Date	Organisation	Type	State	Channel	Component	Feedback	Response
24 June 2024	Open Welding	Employer	VIC	Information Session	General	Do you accommodate recognition of prior learning (RPL)? How does a candidate get qualified?	All units and qualifications developed by Manufacturing Alliance are designed to suit actual delivery or RPL by a Training Provider.
24 June 2024	Australian Submarine Corporation (ASC)	Government	SA	Information Session	General	Will the qualification or units show the mapping across the standards?	Initial consultation with AINDT agreed to align the technical standards as much as practicable taking into account compliance within the Training package organising framework (TPOF).
24 June 2024	Australian Submarine Corporation (ASC)	Government	SA	Information Session	General	Regarding the certification ISO 9712, are the hours of training and experience incorporated into the revised units or qualifications?	Under the TPOF, we cannot specify the hours of training and experience that AINDT specifies. However, we have developed units of competency to describe the skills and knowledge required to meet the competency requirements of the task.
24 June 2024	Australian Submarine Corporation (ASC)	Government	SA	Information Session	General	Are the competencies supported by other companies or AINDT?	AINDT has been consulted on the project and has a representative member on the Technical Committee.

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Date	Organisation	Type	State	Channel	Component	Feedback	Response
24 June 2024	TICS	Employer	QLD	Information Session	General	A few employees undertaking Certificate III in Engineering – Technical, which has limited NDT units, could benefit from the nationally recognised training.	Noted. There are five NDT units can be included in the Certificate III in Engineering - Technical qualification. Each RTO can determine the elective units they will deliver as part of the qualifications.
26 June 2024	AW Bell	Employer	VIC	Information Session	General	It's great to see that they are all being revised. Talking about North American companies, they require NAS 410 certified non-destructive testing technicians. Does the revision take into account any of the NAS 410? That is, is there any push to try and get reciprocal recognition, to support US, air space and defence contracts?	<p>Thank you for your feedback. The MEM NDT units allow training against other NDT standards to be used as part of the delivery and assessment against the unit of competency.</p> <p>The successful achievement by a student of the proposed NDT units of competency can support an application for industry recognition by a standards body such as AINDT or NAS 410 certifying organisations.</p>

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Date	Organisation	Type	State	Channel	Component	Feedback	Response
26 June 2024	Qantas Engineering	Employer	NSW	Information Session	General	<p>The preferred technical standard for the qualification of QANTAS NDT staff is EN4179, which is parallel to NAS 410 and the National Aerospace NDT Board looks at the recommended standard for the staff training syllabus and that's ISO 25107.</p> <p>It then falls back to the Level 3, to look at someone's training and in particular the transition from general industry moving across to aerospace.</p> <p>This forum is more about developing the MEM as opposed to looking at industry accreditation and the central industry certifying body.</p>	<p>Thank you.</p> <p>This is the underpinning training that is required for entry into the industry and then the certification comes from the recognising authorities.</p>
27 June 2024	Protonautics Pty Ltd	Employer	QLD	Feedback Form	Skill Set	<p>We welcome and support these training initiatives and intend to fully cooperate with the new initiatives to ensure that we are up to date with any industry changes and legislative requirements relating to our NDT inspection department.</p>	<p>Thank you for your support.</p>

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Date	Organisation	Type	State	Channel	Component	Feedback	Response
27 June 2024	Protonautics Pty Ltd	Employer	QLD	Feedback Form	CVIG	Happy with these initiatives - they provide an opportunity for ongoing development and training within the framework of our NDT department.	Thank you for your support.

**Appendix D - List of Stakeholders Consulted through UEEA Training Council
Network**

Organisation	Type	State
Hofmann Engineering	Employer	WA
WATI – Western Australian Training Institute	RTO	WA
Crushology	Educational experts	WA
Barminco	Employer	WA
Shell	Employer	National
Westrac	Employer	WA
Griffin Coal	Employer	WA
RCR Tomlinson	Employer	WA
BHP	Employer	WA
VV Walsh	Employer	WA
Ciphertel	Employer	WA
Moxi	Educational expert	WA
Silverstar Marine	Employer	WA
BAE Systems	RTO/ Employer	WA
FMGL	Employer	WA
Evolution Commercial	Employer	WA
Rio Tinto	Employer	WA
Australian Steel Institute	Peak body	WA
Minprovis	Employer	WA
CMS Engineering	Employer	WA
St Barbara	Employer	WA
Westrans WA	Employer	WA
AGIG – Australian Gas Infrastructure Group	Employer	WA
Macmahon Holdings Limited	Employer	WA
Austal	Employer	WA
KBR	Employer	WA
Emicol - Engineering and Manufacturing Industry Cooperative Limited	Industry Association	WA
Plan B Engineering	Employer	WA
Crushing Equipment	Employer	WA
Babylon Operations	Employer	WA
SV Australia – Support Vehicles Australia	Employer	WA
MO Group	Employer	WA
Horizon Power	Employer	WA
Perenti Group	Employer	WA
Veem Ltd	Employer	WA
Roy Hill	Employer	WA

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Organisation	Type	State
Water Corporation	Employer	WA
Komatsu	RTO/Employer	WA
MLGOz	Employer	WA
BHP	Employer	WA
Penske	Employer	WA
Scania	Employer	WA
Major Motors	Employer	WA
TCWA – Tourism Council WA	Peak Body	WA
Cummins	Employer	WA
Marlee Resources	Employer	WA
WE Services	Employer	WA
Heliwest Group	Employer	WA
Anthony Green	Employer	WA
Hawker Pacific	Employer	WA
WT Business	Employer	WA
CH Cheli	Employer	WA
Aviation Australia	Educational expert	WA
Aerospace NDI	Employer	WA
Airflite	Employer	WA
Cobham	Employer	WA
South Metro TAFE	RTO	WA
North Metropolitan TAFE	RTO	WA
South Regional TAFE	RTO	WA
Central Regional TAFE	RTO	WA
North Regional TAFE	RTO	WA
ITWS - Industry Training & Workplace Services	RTO	WA
NAM Training	RTO	WA

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Appendix E – Summary of Consultation Feedback

The following graphs provide a summary of the stakeholder engagement activity during consultation period.

Analytics covering broad consultation

