

AAWT

AUSTRALIAN ACADEMY OF WELDING TECHNOLOGY

— ADVANCING THE ART & SCIENCE OF WELDING —



Supporting Australia's industrial, manufacturing and vocational education sectors.



Strengthening Australia's Welding Workforce Capability



Australia's industrial and manufacturing sectors are undergoing significant transformation driven by advanced manufacturing, defence programs, infrastructure expansion, renewable energy projects and the adoption of Industry 4.0 technologies. These developments have intensified demand for a highly skilled welding workforce and modern, professionally equipped training environments.

The Australian Academy of Welding Technology (AAWT) has been established to address this capability need. As a purpose built, state of the art welding training facility, AAWT provides scalable, flexible and contemporary infrastructure that supports workforce development, industry competitiveness and sovereign capability.

AAWT is *not* a training provider. Its role is to supply the facility, equipment and technology, enabling organisations or their nominated training providers to deliver their own programs in a professionally supported environment.

The facility supports both accredited and non accredited programs, providing a platform for industry, RTOs and government funded initiatives to operate.



Key Capability Areas:

- Workforce development and upskilling
- Infrastructure support for accredited vocational training
- Technology adoption and innovation acceleration
- Skills pipeline development for defence, infrastructure & manufacturing
- National capability uplift in welding and fabrication
- Support for sovereign industrial capability and supply chain resilience

A Modern, Scalable & Technology Enabled Training Environment



AAWT has been developed as a Best Practice, State-of-the-Art facility, providing access to advanced welding technology without the financial burden or operational complexity of establishing and maintaining dedicated workshops. The facility supports scalable training delivery, flexible program design and integration with accredited training frameworks.

AAWT's infrastructure has been designed to meet the needs of industry, RTOs, government programs and workforce development initiatives. The facility provides a controlled, professionally supported environment that ensures safety, compliance and high quality training outcomes.

Facility Features

- 8–10 fully equipped welding bays with modern multi-process systems
- Industry 4.0 welding technology supporting advanced data capture which includes digital monitoring, performance analytics and traceability systems
- Modern classroom for up to 20 participants with AV capability
- Australian Standards compliant workshop facilities including premium fume extraction solutions
- Configurable training areas for diverse program requirements
- Professional support services including weld testing, coordination and administration

Technology Access

AAWT provides access to specialist welding technologies used in advanced fabrication, defence production, infrastructure development and high precision manufacturing:

The first phase of equipment focuses on manual systems

- Advanced Process, Digital Waveform MIG/MAG systems
- Premium AC/DC TIG

The second phase of equipment will expand with automation technologies

- Orbital TIG welding systems
- Cobot Welding Platforms
- Submerged Arc Welding (SAW)



Supporting Industry, Education and National Workforce Priorities

AAWT provides a professionally supported environment for organisations seeking to deliver training, assessment and capability development aligned with industry standards and national workforce priorities.

The facility is suitable for

- Internal workforce training and upskilling
- Competency assessments and practical evaluations
- RTO delivered accredited programs
- Technology familiarisation and adoption
- Industry demonstrations and trials
- Recruitment and pre employment assessments
- Advanced process training (cobot, orbital TIG, Sub Arc Systems)#

Strategic Benefits for Government & Industry Bodies

- Addresses national skills shortages in welding and fabrication
- Provides scalable infrastructure for accredited training delivery
- Supports workforce readiness for major national projects
- Enables technology adoption across manufacturing sectors
- Strengthens sovereign industrial capability and supply chain resilience
- Enhances productivity and competitiveness in critical industries
- Reduces barriers to accessing modern training environments
- Supports regional and national workforce development initiatives

Economic & Workforce Impact

AAWT contributes to

- Increased workforce participation in skilled trades
- Improved training throughput and capability uplift
- Enhanced readiness for defence, infrastructure and manufacturing projects
- Reduced training delivery costs for industry and RTOs
- Greater alignment between training outcomes and industry needs

Second phase of facility development



Australian Academy of Welding Technology

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