SIGNIFICANT CHANGES TO INTERNATIONAL WELDING ENGINEER (IWE) QUALIFICATION

PAGE 4
I am pleased to report that the 69th IIW Annual Assembly and International Conference was a great success. Hosted by the WTIA in Melbourne from July 10 to 15, the event was attended by more than 700 people, including over 100 Australian delegates.

With representatives of more than 55 IIW member countries and various local and international technical experts in attendance, the event generated new ideas, and fostered a whole range of new collaborations.

Highlights of the event included the Opening Ceremony, during which many of the global welding industry’s experts were recognised, including Australia’s own Professor John Norrish, who was awarded an IIW Fellow; and a team from Arup and Yongnam who won the Ugo Guerrera Prize (awarded to an outstanding welded construction) for the design and fabrication of the roof of the National Stadium at the Singapore Sports Hub.

Dr Stuart Cannon’s keynote Houdremont Lecture — *The Role of Welding Technology in the Performance of Warships Past, Present and Future* — was extremely well received. His lecture was both highly informative and engaging.

All the off-site technical visits were a favourite of delegates. Our thanks goes to RMIT Advanced Manufacturing Precinct, Bombardier, Australian Synchrotron, Swinburne University Advanced Manufacturing and Design Centre, CSIRO Manufacturing, and Brookfield Multiplex for facilitating these visits.

Equally as well received was the program of social events, particularly the Australian evening, and the young professional networking events.

The benefits of the Assembly and Conference for the entire Australian welding industry were numerous. Not only did the event raise Australian industry’s international profile enormously, it facilitated a range of technology transfer.

As a result of the WTIA’s work with the IIW in organising the event, a number of real benefits for Australian welders have been realised. The WTIA has signed a Memorandum of Understanding (MoU) with the American Welding Society. This MoU has led to the delivery of a group of online training courses, as well as the delivery of D1.1 training face-to-face. For more information about this training, please visit the WTIA website.
WTIA CEO UPDATE

On behalf of the Welding Technology Institute of Australia and the IIW, I would like to thank all of our sponsors this year, including:

- Platinum Sponsor, DCNS Australia
- Gold Sponsor, EWM
- Our three Silver Sponsors, BOC, voestalpine Böhler Welding and Kiswel
- Australian Evening Sponsor, ANSTO
- Stationery Partner, The Lincoln Electric Company
- Media Partner, Build Magazine
- Technical Commission Sponsor, Kemppi
- Volunteer Sponsor, the Defence Materials Technology Centre

I would also like to thank all our exhibitors, including:

- Bisalloy Steels
- BOC
- Cigweld
- Ensitech
- EWM
- Intercad

- K-TIG
- Kemppi
- Kiswel
- Lincoln Electric
- Metal Science Technologies
- Springer
- voestalpine Böhler Welding

Without the generous support of our sponsors, and the innovative demonstrations from our exhibitors, we simply could not hold this event. Lastly, my thanks goes to all members of the Local Organising Committee, particularly Madeleine Du Toit (Professor, Welding Engineering Research Group, University of Wollongong) who provided a great deal of input into the program, and David Lake (Managing Director, ATTAR), who assisted with the execution of the event.

It was the tireless work of the Organising Committee that made the event so successful.

Geoff Crittenden
WTIA CEO

INTERNATIONAL WELDING ENGINEER QUALIFICATION

Following significant feedback from members in relation to access conditions for International Welding Engineer (IWE) status, I am thrilled to announce that the WTIA obtained clarification from the IIW on the inclusion of a much wider range of qualifications.

Currently, participants must hold at least a Bachelor Degree (or higher) in engineering, or a related discipline.

Moving forward, candidates with a postgraduate qualification, such as a Graduate Diploma or Masters Degree, in an Engineering or related discipline from a recognised university in Australia (such as a Graduate Diploma in Materials Welding Technology from RMIT or a Master of Engineering Practice in Materials Welding and Joining from University of Wollongong), will meet the IIW IWE entry requirements.

This could be any of the following in an engineering discipline:

- Bachelor Degree
- Bachelor Honours Degree
- Graduate Certificate
- Graduate Diploma
- Masters Degree
- Doctoral Degree
- Higher Doctoral Degree

The Closing Ceremony.

Wayne Hayes (General Manager Industry and Innovation, DCNS) speaks at the IIW Opening Ceremony.
The Victorian Committee recently met at ATTAR’s training centre for Non Destructive Testing, and laboratory for mechanical and materials testing.

Employees from ATTAR, namely Angelos Spathis and Hamed Madani, outlined the work conducted at ATTAR and demonstrated some of the most common processes of non-destructive testing (NDT) and mechanical testing of welds.

The attendance at the committee meeting was good. Students from both Chisholm Institute of TAFE and Federation Training (who are currently studying for their Welding Supervisors certificate), came along to the meeting. These students all agreed that the presentation was excellent, and their knowledge of these processes was greatly enhanced.

One student even commented that witnessing the correct procedure for performing basic NDT processes in person at ATTAR was far better than watching it on YouTube.

The committee would like to thank David Lake, Chief Executive Officer of ATTAR, and both Angelos and Hamed for having the Victorian Division as their guests, and presenting such an informative and engaging program.

At this recent meeting, Bruce Ham (WTIA Chief Technology Officer) also addressed the group on changes that have been made to the Pipeline Code AS2885.2.

Bruce highlighted the major change that has occurred, namely the inclusion of key duties for Welding Engineers, Welding Supervisors, Welding Inspectors and Welders. Bruce also addressed the qualifications now required by personnel involved in the construction of pipelines.

In addition, Bruce provided an update on the WTIA’s new Welding Certification Register, recently launched at the IIW Annual Assembly and International Conference in Melbourne. The topic generated a great deal of interest and discussion.

A big thank you to Bruce for his time. After his presentation, the Victorian Committee feels that it is in touch with current issues affecting the division.

AUGUST COMMITTEE MEETING

The August meeting of the Victorian branch will feature a discussion on the topic of the development of Welding Procedures to AS1554.

- **Date:** Thursday 25 August
- **Time:** 5:00pm
- **Venue:** Chisholm Institute of TAFE, Dandenong Campus, 121 Stud Road, Dandenong

Be sure to mark this date in your diary—all are welcome, including Welding Supervisors and Inspectors, Welders, and all personnel involved with implementing and developing welding procedures.

VICTORIA DIVISION NEWS
 NSW DIVISION NEWS

Sydney Steel Mill (SSM) played host to the WTIA on 6 July. Approximately 25 members met at OneSteel’s Steel Mill at Rooty Hill for their monthly meeting before they were given the opportunity to see the Steel Mill first hand on a tour of the facilities.

The Steel Mill at Rooty Hill regularly conducts tours for a mix of industry, professional and customer groups. The benefits of these tours work both ways. They’re an opportunity for Sydney Steel Mill to engage with their broad customer and industry base, while tour participants gain valuable insights into Meltshop and Bar Mill processes.

S&L Steel’s and WTIA member, Subhasis Saha said participants enjoyed the visit with several requests for a return visit to see the smelting operations.

“WTIA learnt the quality aspect of steel making. It was interesting to learn that Sydney Steel Mill was producing nearly 420,000 tonnes of steel yearly and with insignificant LTI which speaks volume of safety. The other aspect was the sustainability in terms of recycling steel.”

“The first step in any manufacturing, especially welding is the quality of the parent material. The quality of OneSteel steel has been exceptionally high. The WTIA wanted to visit Sydney Steel Mill to learn how this quality is maintained,” said Subhasis.

SSM’s Operations Engineer, Claire Dwyer and Customer Quality and Reinspection Leader, Steven Downing conducted the tour, receiving a certificate of appreciation from the WTIA following the event.

For Steven, tours such as the WTIA event play an important role in Sydney Steel Mill’s engagement with a wider community of professional associations and customers. They’re also a way for OneSteel to demonstrate how it adds value, as a whole. “We offer not just high quality delivery on time, in full, we’re physically present. We can review the technical details, it’s a valuable way of letting them know we’re here.”

“For associations like WTIA, it’s a great way for OneSteel to extend our reach into the marketplace – through to distributors, manufacturers, fabricators. It’s a way to engage with them and to get the message out there that we’re here - we’re loud and proud,” said Steven.

The WTIA would like to thank OneSteel NSW Sales Manager, Brad Evans for organising the visit.

 NSW CONTACT

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State Coordinator NSW
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0437 660 344
The State Government recently announced that it will invest $13.7 million to help South Australia achieve maximum economic benefit from the Future Submarine, Offshore Patrol Vessels and Future Frigate contracts.

The State Budget measures will include:
• $6 million over three years to attract defence companies to set up or expand in SA
• $4 million over four years for French engagement activities relative to the Future Submarine program
• $2.3 million over five years for the Defence Teaming Centre to support local supply chain businesses
• $1 million in 2016-2017 for the Techport Australia Master Plan to expand the shipbuilding hub
• $420,000 for South Australia’s high-level attendance at Euronaval, the leading global maritime security, safety and naval defence trade show in Paris in October 2016.

Submarines program will start in 2022. The first of 12 submarines is expected to enter service in the 2030s.

These projects represent thousands of ongoing South Australian jobs in the defence industry, as well as a range of and associated industries.

NORTHERN CONNECTOR PROJECT
The Australian and South Australian Governments have announced joint funding of $985 million to deliver the Northern Connector (road only) as part of the 78km North-South Corridor, with the Australian and South Australian Governments contributing $788 million and $197 million respectively.

Major contractor Lendlease will establish NorthHub – an employment, skills and training centre to help northern jobseekers secure some of the 480 jobs required per year on the project. NorthHub will be a one-stop shop for vocational education and training, and other service providers to meet on-site with industry partners, subcontractors and workers.

The new non-stop motorway connecting the already completed Northern Expressway and South Road Superway links, will provide an unimpeded journey from Gawler to Regency Park; a total of 43km. The project scope includes:
• 15.5km motorway
• Four road interchanges
• Three lanes in each direction, posted speed of 110km per hour
• 16km paths for cyclists and pedestrians.
The West Australian Division met on 7 July, the week before the International Institute of Welding’s Annual Assembly and International Conference.

All members expressed their interest in the event, with the West Australian Division represented by John and Alan Gibbons at the Conference.

DUPLEX & SUPER DUPLEX STAINLESS STEEL WELDING
Phil Stubbington of Lincoln Electric will give a presentation on the topic of Duplex and Super Duplex Stainless steel welding on 24 August at South Metropolitan TAFE, Thornlie. This is an open event, so please feel free to attend and bring along anyone that may be interested in the topic.

MATERIALS & MAINTENANCE ADVANCEMENTS FOR MINING
The WTIA has partnered with Materials Australia for the upcoming event: Materials and Maintenance Advancements for Mining 2016.

The event will be held in Kalgoorlie on 14 October, and will focus on the innovative use of materials and maintenance to support life extension on capital equipment and plant assets—a topic that is critical to the Kalgoorlie mining industry.

The breakfast seminar will be presented by Erich Hofmann of Hofmann Engineering. Several WTIA Members will also give presentations, including Gary Lantzky (CEO of Callidus Welding Solutions), Johann Petrick (Metallurgical Engineer at MTS Metallurgical Testing Services) and Louise Petrick (WTIA Technology Manager).

The seminar will cover materials, welding, and asset management and corrosion. It will be followed by a KCGM plant visit, and an opportunity to network over drinks. For further details, please contact Michael Krachler (michael.krachler@chevron.com) or visit the Materials Australia website.

MEETINGS FOR 2016
The West Australia Division has scheduled its meetings for 2016, so mark these dates:
• Thursday 11 August
• Thursday 13 October
• Thursday 10 November
• Thursday 8 December

WA CONTACT
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WTIA WA Division Chairman
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This month, the Queensland Division brings readers updates from some of the state’s mining, construction and manufacturing companies, all of which indicate that Queensland’s economic outlook is quite positive.

Queensland Government to Fund $6.5 Billion in Projects
The Queensland Government’s expert infrastructure panel has recommended it move ahead with more than $6.5 billion in projects.

The Government recently released Building Queensland’s Infrastructure Pipeline Report, which identified four projects ‘ready for government investment consideration’. The projects are Cross River Rail in Brisbane, a new train control system for Brisbane’s inner-city, upgrades to the Cunningham Highway at Yamanto, west of Brisbane, and extra lanes for the Pacific Motorway between Mudgeeraba and Varsity Lakes on the Gold Coast.

Downer Wins $250 Million Contract Extension
Engineering group Downer EDI has won a $250 million, two-year extension for its mining services contract for Stanwell Corp’s Meandu coal mine in south east Queensland. The contract will now run until June 2020, Downer confirmed.

Downer has also signed a technical services agreement, worth $2 million, with India’s Adani Enterprises for planning, design and project services at the group’s coal mines in India.

Signet Invests $7 Million
Queensland packaging and industrial supplies company Signet has invested $7 million in a plastic extrusion machine. According to Signet, the improved economic stability of local manufacturers influenced the purchase decision. The new machine can produce 15 tonnes of plastic wrap per day, enabling the company to re-shore some of its manufacturing. Established in 1968, Signet supplies retailers such as Metcash, 3M and Ansell.

Callide B Power Station Gets $31 Million Overhaul
A massive $31 million overhaul of the Callide B Power Station will see 350 direct jobs created when state-owned electricity generator CS Energy commences a major service of the Station in July. This is in addition to the power station’s permanent workforce of around 200 employees.

New Mine in Cloncurry
The joint venture between Altona Mining and Sichuan Railway Investment Group has been finalised to create a $330 million open pit gold and copper mine near Cloncurry. The mine is expected to have a lifespan of 11 years, creating 300 construction jobs and 280 ongoing positions.
Welding Manager?
Be Smart.

- Cloud-based. Access anywhere
- Tablet apps with offline feature to work in remote areas without internet
- Role based access
- Manage WPS, PQR, WPQ
- Store drawings
- Compile project data book or MDR
- Pictorial weld mapping
- Record dimensions
- Welding inspection by stages
- Take photographs of welds
- Full Traceability
- Import or export data from other programs
- Bulk file uploads
- Manage ISO 3834 certification
- Save on server infrastructure
- Secure access, keep data safe

SPMT
SMART WELDING MANAGER
Cloud-based Welding Management Software

www.smartweldingmanager.com
The WTIA hosted the 69th IIW Annual Assembly & International Conference in Melbourne from 10 to 15 July 2016, the premier event for the global welding and fabricating industry.

The week-long Assembly and Conference was attended by over 700 delegates, with representatives from more than 55 IIW member countries, including 150 Australians, as well as various local and international technical experts.

OPENING CEREMONY

A lone didgeridoo player, accompanying projections of Australia’s natural wildlife, kicked off the Opening Ceremony, setting the spectacular tone for the event.

The Opening Ceremony also included the presentation of the 2016 IIW Awards, during which many of the global welding industry’s experts were recognised, including Australia’s own Professor John Norrish, who was awarded an IIW Fellow); and a team from Arup and Yongnam who won the Ugo Guerrera Prize (awarded to an outstanding welded construction) for the design and fabrication of the roof of the National Stadium at the Singapore Sports Hub.

GENERAL ASSEMBLY

The 2016 IIW General Assembly progressed smoothly, with a number of new Board members appointed, including a new President Elect—Mr Douglas Luciani from Canada (currently the IIW Treasurer) who will commence from 2017.

Cécile Mayer, Chief Executive Officer of the IIW, also provided an update on a number of new initiatives being implemented by the IIW. These initiatives include a major website upgrade, production of a series of corporate brochures, and the relocation of the IIW head office to Yutz in the north east of France.
TECHNICAL WORKING UNITS

The IIW’s Technical Working Units examine all key aspects of materials joining that are of prime relevance to industry. The extensive network of Technical Working Units address all significant, ongoing issues and current ‘hot topics’ to ensure the efficient transfer of knowledge and solutions to industry.

With a total of 17 Technical Working Units, each Unit includes one delegate per member society per country, who has voting rights. The Technical Working Units are categorised according to three main themes: Processes, Structural Integrity, Human Aspects. All the Technical Working Units met during the Annual Assembly, including:

**Processes**
- Commission I: Thermal Cutting and Surfacing
- Commission II: Arc Welding and Filler Metals
- Commission III: Resistance Welding, Solid State Welding and Allied Joining Processes
- Commission IV: Power Beam Processes
- Commission XII: Arc Welding Processes and Production Systems
- Commission XVI: Polymer Joining and Adhesive Technology
- Commission XVII: Brazing Soldering and Diffusion Bonding
- Study Group 212: Physics of Welding
- Select Committee: Microjoining

**Structural Integrity**
- Commission V: Non-Destructive Testing and Quality Assurance of Welded Products
- Commission IX: Behaviour of Metals Subjected to Welding
- Commission X: Structural Performance of Welded Joints Fracture Avoidance
- Commission XI: Pressure Vessels, Boilers and Pipelines
- Commission XIII: Fatigue of Welded Components and Structures
- Commission XV: Design, Analysis and Fabrication of Welded Structures
- Select Committee: Automotive and Road Transport
- Select Committee: Permanent Joints in New Materials and Coatings for Aircraft Engineering

**Human Aspects**
- Commission VI: Terminology
- Commission VIII: Health, Safety and Environment
- Commission XIV: Education and Training
- Select Committee: Quality Management in Welding and Allied Processes
- Study Group: Welding Research Strategy and Collaboration

Exhibitors at the IIW Annual Assembly and International Conference. Clockwise from top left: Ensitech, K-TIG, Bisalloy Steel, and BOC and EWM.
Delegates were treated to a range of informative and engaging lectures throughout the International Conference.

Dr Stuart Cannon (Research Leader Naval Architecture, Defence Science and Technology Group) opened the International Conference, presenting the Houdremont Lecture. Dr Cannon spoke on the topic of The Role of Welding in the Performance of War Ships Past, Present and Future.

With details on the history of welded warships, fatigue of welded joints in existing warships, sea trials and even modern torpedo technology, Dr Cannon’s presentation was very well received.

Martin Prager (Executive Director of the Welding Research Council) discussed Principles for Estimation of Remaining Lives of Welded Pressure Components at Elevated Temperatures.

Peter Kuebler (BOC’s Automation Product Manager) presented on Innovative Australian Robotic Welding and Cutting of Mining Equipment and Infrastructure. Peter discussed the challenges currently faced by the Australian welding industry, and highlighted how new generation robotics have the potential to double production rates, and reduce waste by as much as 70%.

Daniel Miller from ASC (Australian Submarine Corporation) spoke about the Welding Challenges of the Collins Class Submarines. Daniel detailed the build process of Collins Class submarines, highlighting the important role of welding—each submarine contains approximately 34km of weld, undertaken by more than 500 welders. Daniel also provided case studies of various maintenance activities, including the circumferential hull cuts and main generator room hull cuts (to enable servicing of generators).

James Murray-Parkes (Director and Lead of Brookfield Multiplex Engineering’s Innovations Group) provided delegates with an overview of the new Modular Construction Code of Practice. This innovative new code was presented to the Government six weeks ago for approval.

The WTIA would like to thank all the other speakers, particularly those from Australia, including Joe Donato, Allan Hellier, Andy Sales, Phillip Bendeich, Dominic Phelan, Mehdi Soodi, Zoran Sterjovski, Stephen Sun, Len Davidson, Igor Chaves, Sasanka Sinha, Kristin Carpenter, Cornelius Van Niekerk, Lenka Kuzmikova, Waldemar Radomska, David Green, Ondrej Muransky, and Zengi Pan.
IIW ASSEMBLY & CONFERENCE

SOCIAL EVENTS

Welcome Reception
Held immediately after the Opening Ceremony, delegates had the opportunity to meet and mingle with one another at the relaxed Welcome Reception. In addition, international guests had the chance to meet some of Australia’s native wildlife, with koalas, dingoes, and even snakes on hand for photo opportunities.

Australian Evening
The Australian Evening was held at Melbourne Public—an iconic Melbourne watering hole, set on the banks of the Yarra River. The night gave all attendees the chance to experience real Australian culture, with a night to remember.

Young Professionals Event
The Young Professionals Networking event offered attendees the chance to meet and mingle with their peers in a relaxed setting, helping form many new working relationships.

Closing Celebration
The Closing Celebrations were definitely a night to remember. All attendees enjoyed fine Victorian produce throughout the relaxing and enjoyable dinner. Towards the end of the evening, the dance floor was full, with everyone taking full advantage of forging new working relationships.
TECHNICAL SITE VISITS

CSIRO’s Lab 22
Delegates attended an interactive seminar session, followed by a tour of the 3D printing facility. During the tour, delegates had the opportunity to ask questions about the technology to better understand how 3D printing can enhance global competitiveness.

Australian Synchrotron
Delegates visited the Australian Synchrotron, a landmark national research infrastructure, a source of powerful x-rays and infrared radiation that generates elemental, structural and chemical information from diverse sample types to drive research in diverse areas.

Brookfield Multiplex Architectural Physics Group
Presented by Brookfield Multiplex’s in house Architectural Physicist Professor James Murray-Parkes, this session enabled IIW delegates to hear how bio mimicry has influenced welded structural connection design.

RMIT’s Advanced Manufacturing Precinct
At RMIT, IIW delegates had the chance to view a range of additive manufacturing technology, including selective laser melting, direct laser metal deposition, fused deposition modelling, and object and U-Print machines. Delegates also viewed RMIT’s internationally recognised multi-axis CNC machines.

Bombardier’s Manufacturing Centre of Excellence
Whilst visiting Bombardier, IIW delegates were treated to a behind the scenes look at the manufacturing process for both the Melbourne E-Class tram and VLocity regional trains for Victoria. Whilst touring the production lines, delegates had the opportunity to meet with a range of skilled employees.

Swinburne University’s Advanced Manufacturing and Design Centre
IIW delegates were treated to a tour of the five studios within the Factory of the Future at Swinburne’s premises, which include: 3-D Visualisation and Design Studio; Rapid Manufacturing Studio; Advanced Inspection and Machining Studio; Biodevice Innovation Studio; and Design for Resource Efficiency Studio.

IIW delegates at RMIT’s Advanced Manufacturing Precinct.

IIW delegates at Swinburne University’s Advanced Manufacturing and Design Centre.

IIW delegates at Bombardier’s Centre of Excellence.

IIW delegates at CSIRO’s Lab 22.
WTIA is proud to announce the launch of its new WeldQ software. WeldQ has been developed by the WTIA and its systems partner, Smart Welding Pro, to provide a software as a service cloud based e-commerce platform capable of managing all ANB qualification and IIW certification requirements.

Designed around the latest cloud based software WeldQ is:

- **Cost Effective** – no expensive hardware or development, and licencing costs to meet all needs
- **Flexible** – able to cope with variations in systems, processes and services
- **Reliable** – latest software ensures performance, access and security
- **Simple** – simple to use established workflows with low training requirements
- **Efficient** — high user input minimises administration staff intervention
- **Multi-Lingual** – easily translated into a range of languages

**Features**

- **Examinations** — manage exams for online or pen and paper delivery; perform online evaluation and marking, and publish results
- **Roles** — assign users to roles as administrator, examiner, assessor and invigilator
- **Libraries & Archives** — store documents and selectively provide access to certain user types, complete with document control features
- **Fees** — set fees on a per module basis, invoice as needed or automatically trigger payment
- **Accounting** — online payment gateway integration and detailed accounting reports
- **Administration** — streamline all administration processes, including cancelling awards, recording changes to applications, and keeping file notes
- **Reporting** — a range of customisable reports

WeldQ has a range of modules which can be configured to deliver the following functionality:

**Standard Configuration**

**Examination Management**
- Online registration and fee payment
- Pre-requisite assessment
- Online, written and practical exam delivery
- Multiple choice and short answer questions database
- Random exam paper generation
- Collaborative online marking system
- Comprehensive candidate feedback system
- Database storage of results
- Diploma, card and stamp preparation and delivery
WELDQ SOFTWARE LAUNCH

Certification
• Pre-requisite assessment and cross checking
• Online panel review and approval
• Assessment and renewal tracking and notification
• Certificate, card and stamp preparation and delivery

Audit
• Remote audit functionality

Optional Modules
• Mobile App - Apple or Android
• Welder Certification Register to ISO 9606 -1 AS2980
• Fabricated Structural Steel Compliance Scheme
• Pressure Plant Compliance Scheme
• Welding Equipment Compliance Scheme

ANB ADMINISTRATION MADE EASY

Cloud-based Access, Anywhere
Staff and applicants can access the software from a web-browser, saving you hardware and maintenance costs.

Role Based Access
Access and permissions are based on roles granted to users, so you can demonstrate compliance to IIW requirements.

High Security & Reliability
Hosted at a high security data centre with redundancy and accessed through secure communication protocols, and with automatic back-up of data, your peace of mind is guaranteed.

Comprehensive Solution
Conduct online examinations, maintain data, documents, certificates and history all in one place; WeldQ is a one stop shop.

Highly Scalable
Our cloud servers balance the load based on number of users and scale up automatically—say goodbye to slow systems and upgrades.

Cutting Edge Technology & Support
Latest cloud-based technology and tools, and a support team that will look after you 24x7.

SUPERIOR SERVICE FOR YOUR CLIENTS

Online Applications & Assessments
Welding professionals may apply (and be informed of their progress) at any time at their convenience. They can pay fees online through secure payment gateway, and be notified of results and awards automatically.

Manage Portfolios with Quicker Applications
WeldQ gives you the ability to maintain qualifications, work experience and professional development records including certificates online. Not only that, records are automatically compiled and attached to an application.

E-Passport
The mobile app allows your clients to carry authenticated electronic certificates at all times to demonstrate their qualifications. Welders can seek confirmation for prolongation, and certificates are reissued with qualification extension log.

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Hosted at a high security data centre with redundancy and accessed through secure communication protocols, and with automatic back-up of data, your peace of mind is guaranteed.

Comprehensive Solution
Conduct online examinations, maintain data, documents, certificates and history all in one place; WeldQ is a one stop shop.

Highly Scalable
Our cloud servers balance the load based on number of users and scale up automatically—say goodbye to slow systems and upgrades.

Cutting Edge Technology & Support
Latest cloud-based technology and tools, and a support team that will look after you 24x7.

ANB ADMINISTRATION MADE EASY

Cloud-based Access, Anywhere
Staff and applicants can access the software from a web-browser, saving you hardware and maintenance costs.

Role Based Access
Access and permissions are based on roles granted to users, so you can demonstrate compliance to IIW requirements.

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PRICING

<table>
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<tr>
<td>Additional Modules $A/month/module</td>
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</table>

Notes:
1. A user is defined as an individual involved in the management of the system i.e. administrator; auditor; examiner; marker.
2. Online training, user manual and data storage are included in the price.
3. If required implementation configuration or customisation is charged separately.
The WTIA has a number of training and professional development courses planned for the Northern Territory in 2016, the details of which can be found below. For further details, please contact training@wtia.com.au.

WELDING INSPECTION

WTIA IIW International Welding Inspector Basic (IWI B)
Darwin, 17 to 21 October

This course is delivered in five days, covering major topics such as the scope of inspection activity, roles and responsibilities of Welding Inspectors, terms and definitions, mechanical testing on welded joints, types and causes of weld imperfections, NDT Techniques, pressure test, dimensional tests, Quality Assurance, and more.

WTIA IIW International Welding Inspector Standard (IWI S)
Darwin, 7 to 11 November (Part 1); and 22 to 24 November (Part 2)

This eight day course provides advanced knowledge of welding and inspection theory and application. This includes NDT, mechanical and visual inspection techniques, inspection procedures and acceptance criteria, identification of weld imperfections associated with pre-production, fabrication and post fabrication, and more.

SHORT COURSES

WTIA 3 Day Welding Technology Appreciation for Engineers
Darwin, 30 August to 1 September; and 1 to 3 November

WTIA presents the Welding Technology Appreciation for Engineers, which provides technical personnel an understanding of some of the significant issues that may arise with welded components. This popular 3-day course provides personnel with an overview and appreciation of how to design, specify, manage and control welding for construction and maintenance projects from a materials behaviour, quality management, inspection and testing perspective.

WTIA 3 Day Welding Technology Appreciation for Mining Personnel
Darwin, 29 November to 1 December

The Mining Industry is finding it increasingly important to control the fabrication, construction, maintenance and repair costs of their plant. Knowledge of welding and associated fabrication technology is vital to achieve such control. Many companies are utilising short, focused training courses for employees to expand their technical capabilities.

WTIA has developed this course to provide mining personnel understanding in the design, specification, fabrication, inspection and testing of fabricated structures.
IWE QUALIFICATION CHANGES

Following significant feedback from members in relation to access conditions for IWE, WTIA has now obtained clarification from the IIW on the inclusion of a wider range of qualifications.

Currently, participants must have at least a Bachelor Degree (or higher) in engineering or a related discipline. However, from now on, candidates with a postgraduate qualification (such as a Graduate Diploma or Master’s Degree) in an Engineering or related discipline from a recognised university in Australia (such as a Graduate Diploma in Materials Welding Technology from RMIT or a Master of Engineering Practice in Materials Welding and Joining from University of Wollongong), will meet the IIW IWE entry requirements.

This could be one of the following in an engineering discipline: Bachelor Degree, Bachelor Honours Degree, Graduate Certificate, Graduate Diploma, Master’s Degree, Doctoral Degree, or Higher Doctoral Degree.

IWT QUALIFICATION

Don’t forget recent changes to the IIW International Welding Technologist (IWT) qualification pathway. Individuals are now eligible to undertake the IIW IWT qualification via recognition of prior learning and experience, including: an IIW IWS diploma; and at least six years of experience (in the past eight years), after gaining an IWS diploma. Previously, IWT qualification required an Associate Diploma in Engineering.

For information, contact Annette Dickerson, Q&C Manager on a.dickerson@wtia.com.au

IWP QUALIFICATION

There is currently an opportunity for people who hold an International Welding Specialist (IWS) diploma to gain an additional IIW qualification—the International Welding Practitioner (IWP).

This qualification can be achieved through recognition of prior learning and experience, without further study. People who already hold an IWS diploma can apply for the IWP qualification simply by submitting an application for assessment.

UPCOMING COURSE DATES

IIW International Welding Inspector – Standard
29 August, Sydney

IIW International Welding Inspector – Standard
29 August, Melbourne

IIW International Welding Inspector – Standard
5 September, Mackay

IIW International Welding Inspector – Standard
19 September, Brisbane

WTIA Welding Technology Appreciation for Engineers,
30 August, Darwin

WTIA Welding Technology Appreciation for Engineers,
14 September, Sydney

WTIA Welding Technology Appreciation for Engineers,
27 September, Perth

WTIA Welding Technology Appreciation for Mining Personnel
20 September, Hunter Valley

IIW International Welding Engineer
26 September, Wollongong

IIW International Welding Technologist
26 September, Wollongong
TRAINING & CERTIFICATION

EXPRESSIONS OF INTEREST: APPROVED TRAINING BODIES

To make access to internationally recognised welding training, qualifications and certifications more widely available to Australian industry, the WTIA is launching a program to expand the network of authorised training centres in Australia.

Organisations wanting to offer courses designed to prepare students for the International Institute of Welding (IIW) qualifications are invited to submit ‘Expressions of Interest’ to become an Approved Training Body (ATB).

Authorised Training Bodies are responsible for the administration and facilitation of IIW courses. As the only IIW Authorised National Body (ANB) in Australia, the WTIA is authorised to assess and approve training organisations as ATBs.

To express your interest in becoming an Approved Training Body, please send an email to training@wtia.com.au with the following information:

1. Name of Organisation
2. RTO Status, including RTO Code (if any)
3. Scope of current training
4. Which courses the organisation is interested in conducting
5. In which city, regional area, or state would the courses be conducted?
6. Contact Person, including:
   • Title within organisation
   • Email address
   • Business phone number
   • Mobile phone number
   • Website

Organisations which have expressed an interest will be contacted with additional information.

AUSTRALIAN INSTITUTE OF INSPECTION PERSONNEL

The WTIA would like to inform members that we will no longer be running the secretariat for Australian Institute of Inspection Personnel (AICIP).

WTIA has operated the AICIP secretariat since the inception of AICIP in 1997.

Should you need to contact AICIP moving forward, please refer to the AICIP website www.aicip.org.au.
The WTIA is pleased to announce that the process of revising its Technical Notes has commenced. After conducting an initial review of its existing Technical Notes, the WTIA is now calling for suitably qualified and experienced volunteers to assist in the review and revision process.

The technical revision of WTIA Technical Note 11 Commentary on the Structural Steel Welding Standard AS/NZS 1554 has already been completed. The new, revised version of the Technical Note will be made available for purchase via the WTIA’s website in the coming weeks.

Following the completion of the revision of Technical Note 11, the WTIA has commenced the revision of all other technical notes.

In order to incorporate as much industry knowledge and experience as possible, the WTIA is calling for interested industry and academic expert volunteers to form a working group to review and update each Technical Note.

The working group will meet electronically (via Skype or similar). After an initial review by the working group, the Technical Note will then be peer reviewed by a select industry group.

As such, the WTIA is now calling for suitably qualified, experienced volunteers to assist in the initial review of the following Technical Notes:

1. Technical Note 1 Weldability of steels
2. Technical Note 6 Control of Lamellar Tearing

Expressions of interest should be directed to Bruce Cannon (WTIA Technical Publications Manager) via b.cannon@wtia.com.au. Please be sure to include your contact details, qualifications, experience and the technical note(s) in which you are interested.

ABOUT THE WTIA’S TECHNICAL NOTES
The WTIA’s Technical Notes should be read alongside the relevant Standard, technical guideline or Code of Practice, where applicable (in some cases, the WTIA’s Technical Notes even pre-date Standards).

In general, the WTIA’s Technical Notes are intended to:

• Present background material which could not be included in the Standards
• Discuss the intent of the Standards
• Explain the application of the Standards and Codes to real life requirements
• Provide technical knowledge for the principal, design engineer, fabricator and inspecting authority to achieve the required weld quality
• Serve as an educational and reference text
• Provide procurement assistance
UPCOMING EVENTS

Whether you need to brush up on skills acquired years ago, or want to try your hand at something new, there’s sure to be an event for you. For further details on any of the events or examinations listed below, contact events@wtia.com.au or +61 (0)2 8748 0100.

AUGUST 2016
Performance of Welded Structures
Sydney, 13 September
This is a one-day standalone course, or a follow up from Welding Process Technology. This course has been designed to provide an understanding of the design, specification, fabrication, inspection and testing of fabricated structures. You’ll learn how to specify, manage and control construction and maintenance projects from a welding and materials perspective. For more information, visit: www.eeaust.com.

Welding Process Technology
Sydney, 4 August
This course provides a comprehensive overview of the basic principles of welding. You’ll learn the basic science and practical application of the most commonly utilised welding processes along with other essential topics, including welding terminology, welding processes, and non-destructive testing. You’ll learn how to specify, manage and control construction and maintenance projects from a welding and materials perspective. For more information, visit: www.eeaust.com.

OCTOBER 2016
Materials and Maintenance Advancements for Mining
Kalgoorlie, 14 October
In conjunction with Materials Australia, the WTIA will present a seminar on materials and maintenance advancements for mining. The innovative use of materials and maintenance to support life extension on capital equipment and plant assets is critical to the Kalgoorlie mining industry. The mining industry requires advancements in design, technologies and products to support safe, reliable, cost efficient operations. For more information, visit: www.materialsaustralia.com.au

DECEMBER 2016
CAMS 2016
Melbourne, 6 to 8 December
CAMS 2016 is set to be an exceptional interdisciplinary technical meeting, covering the latest advancements and technological innovation in the field of materials science and engineering. Featuring world-renowned invited speakers, an intensive scientific program with various concurrent streams, and a veritable smörgåsbord of networking events, it is sure to inform, engage and excite delegates. For more information, visit: www.cams2016.com.au
EXPAND YOUR AUDIENCE. GROW YOUR BUSINESS.

Advertise with the WTIA Today

WTIA is happy to offer you and your business the opportunity to promote your products and services directly to the decision makers in the welding and fabricating industry. We have a range of cost effective advertising and editorial packages available, in both Weld Connect and the Australian Welding Journal.

For further information about advertising in Weld Connect, please contact: Donna South on d.south@wtia.com.au or +61 (0)2 8748 0130