

## LEARN HOW TO:

- Implement a welding quality management system in your company based on the standards AS/NZS ISO 3834 and ISO 14731
- Coordinate the welding-related activities and assign the roles of Welding Coordinators and Responsible Welding Coordinators to ISO 14731
- Comply and certify to AS/NZS ISO 3834 & ISO 14731 in accordance with EA-6/02
- Conduct a self-assessment on your company

### TUESDAY: MORNING SESSION

#### Philosophy, Pitfalls & Challenges: Implementing an Effective Welding Management System

- Why were welding management standards developed?
- The evolution of ISO 3834
- The role of the International Institute of Welding in welding management – IIW MCS ISO 3834
- Implications of EA-6/02
- How is ISO 3834 used? Demonstration case studies

### TUESDAY: AFTERNOON SESSION

#### Understanding AS/NZS ISO 3834 and ISO 14731

- Relationship between ISO 3834 and ISO 9001
- The process management approach to welding
- Introduction to the philosophy of ISO 3834
- Choosing the appropriate level of compliance
- Interpreting the requirements of AS/NZS ISO 3834
- Interpreting the requirements of ISO 14731
- Case study on applying AS/NZS ISO 3834 to a fabrication workshop

### WEDNESDAY: MORNING SESSION

#### Preparing for an Assessment

- Case studies on setting up a welding co-ordination team and their tasks
- How do we review a client's requirements?
- Implementing world's best practice on elements such as equipment registers and maintenance plans, and calibration and validation of equipment
- Case study on conducting a self assessment

### WEDNESDAY: AFTERNOON SESSION

#### Extracting Maximum Value from a Welding Management System

- Internal auditing – demonstration by case study
- What benefits does compliance provide?
- Reducing 'quality costs'
- Improving welding productivity through implementing AS/NZS ISO 3834 and ISO 14731

### NATIONAL MANUFACTURING WEEK TUE-FRI

Attend the 4-day NMW and Welding Exhibition on Thursday, as well as the WTIA AGM and Annual Awards Dinner Wednesday evening.

## REGISTRATION FORM

Welding Management to IIW MCS ISO 3834  
13-14 May 2010 NMW  
To: WTIA PO Box 6165, SILVERWATER, NSW, 1811  
Phone: (02) 9748 4443 Fax: (02) 9748 2858  
EMAIL: info@wtia.com.au (ABN 69 003 696 526)

Surname: \_\_\_\_\_

First Name: \_\_\_\_\_

Position: \_\_\_\_\_

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

Suburb: \_\_\_\_\_ State: \_\_\_\_\_ PC: \_\_\_\_\_

Email: \_\_\_\_\_

Tel: \_\_\_\_\_ Fax: \_\_\_\_\_

Mobile: \_\_\_\_\_

### VENUE

Exact room location at Sydney Showgrounds and parking and access details will be provided on confirmation of registration.

### METHOD OF PAYMENT

Please ensure all details below are filled correctly. All payments should be made payable to WTIA.

Cheque/Money Order  MasterCard  Visa

Cardholders Name: \_\_\_\_\_

Expiry Date: \_\_\_\_/\_\_\_\_/\_\_\_\_ Amount \$ \_\_\_\_\_

Card No: \_\_\_\_/\_\_\_\_/\_\_\_\_/\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

Funds may be transferred to the following account details. Please return a **remittance advice** to fax: 02 9748 2858 or email [a.zervas@wtia.com.au](mailto:a.zervas@wtia.com.au). National Australia Bank BSB: 082 330 Account: 047162875 Branch: 28 George Street, Parramatta, NSW Account Name: Welding Technology Institute of Australia.

### FEES

\$990 WTIA Members \$1100 Non Members

Membership Number: \_\_\_\_\_

Fees include coffee/tea, lunches, course notes and GST

### IMPORTANT NOTICE

Note: For cancellations received within 10 working days of a course, 100% of the fees will be charged. Replacement delegates may be sent in lieu of those cancelled. WTIA reserves the right to cancel courses due to insufficient registrations or other reasons beyond their control. Confirmation of bookings will be sent to delegates upon registration. WTIA also reserves the right to refuse registrations.



~ OZWELD SCHOOL OF WELDING  
TECHNOLOGY ~  
SWT-61

# Welding Management to IIW MCS ISO 3834

## 2-DAY WORKSHOP

Implementing an effective welding  
management system in your  
company using  
AS/NZS ISO 3834 and ISO 14731

Thur-Fri 13-14 May 2010

Sydney Showgrounds, Homebush, NSW  
During National Manufacturing Week  
and the Welding Technology Zone  
Exhibition



INTERNATIONAL INSTITUTE OF WELDING  
A world of joining experience

## COMPETITIVE COMPANIES

Companies around Australia and the world are now adopting the International Institute of Welding (IIW) Manufacturer Certification Scheme (MCS) for the Management of Quality in Welded Fabrication, in order to become more competitive with welded products in the global market place.

The MCS calls upon ISO 3834 Parts 1-5 *Quality requirements for welding - Fusion welding of metallic materials* which enables companies to implement a welding quality management system in conjunction with ISO 14731 *Welding coordination - Tasks and responsibilities* to achieve world's best practice.

Implementation of the MCS, in accordance with EA-6/02 *Guidelines on the Use of EN 45 011 and EN 45 012 for Certification to ISO 3834*, enables a company to demonstrate its ability to meet and control all of the inputs necessary to tender, manufacture and deliver the required product on time – essential factors in winning contracts. For the contractor, this must be done within budget and with the elimination of costly corrective actions and rework.

## CAREERS FOR INDIVIDUALS

In complying with the MCS, companies must nominate and empower a person to become the Responsible Welding Coordinator, leading the Welding Coordination Team comprising all those involved in creating the welded product.

As a team, these people are responsible for not only welding quality and management, but also productivity, occupational health, safety and rehabilitation (OHS&R) and management of environmental issues. Each contributes their own knowledge, expertise, qualifications and certification to the team to support not only the company's compliance to ISO 3834 and other Standards but also its overall efficiency and competitiveness in the market place.

This in turn generates career structures for individuals suitably qualified and certified to international standards. The IIW Qualification and Certification programs for International Welding Engineers, Technologists, Specialists, Practitioners, Welders and Inspectors has been introduced by the WTIA as the Australian and New Zealand IIW Authorised National Body (ANB).

WTIA has established a network of IIW Approved Training Bodies (ATBs), including the WTIA OzWeld School of Welding Technology (SWT) to deliver international standard training courses for the range of IIW qualifications and certification cited by AS/NZS ISO 3834 and ISO 14731.

## BENEFITS

### For the manufacturer

- Less rework
- Jobs completed on time
- Local and international recognition as a competent company
- Meet the welding-related requirements of ISO 9000
- More efficient coordination of welding activities
- More pro-active and responsible work force
- Increased opportunities to bid on jobs
- Cost savings - more efficient technology

### For the purchaser

- Reduction in maintenance costs
- More assurance of contract delivery dates
- Greater assurance of quality of welded product
- Greater reliability and performance of plant
- Reduction/elimination of third party inspection costs
- More competent suppliers of welded products

### To the individual

- Helps to do the job more satisfactorily
- Greater job security, reward & career structure
- Higher regard by other people, team spirit
- Professional recognition
- Satisfied employer and customer

## WHO SHOULD ATTEND?

Companies supplying the Rail, Roads, Pressure Equipment, Building & Construction, Mining, Defence, Water, Power Generation, Oil and Gas and other industries, represented by Quality Assurance Managers, Production or Works Managers, Welding Personnel including Supervisors and Coordinators.

## WORKSHOP CONTENT

This workshop will show how to:

- Implement the requirements of AS/NZS ISO 3834 Parts 1 to 4 and ISO 14731
- Implement the tasks requiring coordination
- Organise staff structure, responsibilities and authorities
- Apply coordination principles to reduce inspection and rework costs and improve productivity
- Raise the cost effectiveness of welding operations
- Identify, control and reduce quality-related costs

## AREAS COVERED INCLUDE

Review of requirements and Technical Review, Subcontracting, Welding Personnel, Welding coordination, Equipment & Maintenance, Production Planning, Welding Documentation, Management of Consumables, Post-weld heat treatment, Inspection, Non-conformances, Calibration and Validation, Identification and Traceability, Quality Records.

## IIW MANUFACTURER CERTIFICATION SCHEME ACCORDING TO ISO 3834

### IIW MCS ISO 3834

1. IIW MCS ISO 3834 Certified Companies easily improve the efficiency of their company's welding management through compliance with ISO 3834 and ISO 14731, with a significant opportunity to reduce costs and waste, without decreasing the level of quality.
2. Practical feedback is given from IIW MCS ISO 3834 audits to assist the company in further improving its quality, productivity and cost savings.
3. Competitiveness is increased as clients are confident that IIW MCS ISO 3834 Certified Companies consistently deliver greater reliability and integrity of components.
4. Automatic recognition in over 50 IIW member countries gives enhanced global competitiveness.
5. IIW MCS ISO 3834 is based on both the stringent requirements of EA-6/02 and document IIW IAB 339.
6. Audits of companies are performed by trained IIW registered assessors who are internationally qualified and experienced International Welding Engineers and Technologists.
7. The IIW MCS ISO 3834 scope of certification spells out the company's welding processes, products manufactured, materials and the role of the Responsible Welding Coordinator (RWC).
8. IIW qualified and certified employees give greater confidence to manufacturer and client alike.
9. IIW has produced specific supplementary guides for the implementation of ISO 3834 for the processes/products considered (e.g. railway components, pressure vessels, construction products etc.), taking into consideration the applicable national and international standards and the best practice manufacturing procedures already implemented by leading international manufacturers and customers.
10. An up-to-date global website register ([www.ewf.be](http://www.ewf.be)), with the relevant information of all companies certified under the IIW MCS ISO 3834, is made freely available to enquirers worldwide.
11. A register of WTIA Australian Certified Companies is also maintained at [www.wtiacertification.com.au](http://www.wtiacertification.com.au). These registers provide an important promotional and credibility benefit to Certified Companies
12. The IIW MCS ISO 3834 can be dovetailed into an ISO 9001 system, be a 'bolt-on' to an ISO 9001 system or a "stand alone" system