

THE PRESENTER



Leon Rosenbrock, WTIA Queensland Technology Manager has wide experience in welding and repair of creep resisting materials, life extension and welding of creep aged materials and has been involved

with metallurgical failure investigations of welded components, fabrication and repair. He has extensive experience with ASME having used it in construction of ASME designed boilers and vessels and in nuclear power station maintenance. He is both a qualified welding technologist and metallurgical technologist.

WTIA TARGETING SKILLS NEEDS IN REGIONS (TSNR) PROJECT

As part of its National Skills Campaign, a nation-wide roll out of the strategies and outputs of its Targeting Skills Needs in Regions (TSNR) Project, WTIA is bringing this leading training course for the Pressure Equipment and Power Generation industries to Queensland, linking in with other events such as the WTIA/MA OPE 9 Conference incorporating the AINDT Biennial Conference, and meetings of WTIA SMART Industry Groups.

THIS EVENT IS SUPPORTED BY WTIA SMART PRESSURE EQUIPMENT INDUSTRY GROUP MEMBERS
AGL Torrens Island Pty Ltd; Alcoa World Alumina Australia; ANSTO; BHP Billiton Yabulu Refinery; BP Refinery (Bulwer Island); BP Refinery (Kwinana); Caltex Refineries (NSW) Pty Ltd; Caltex Refineries (QLD) Ltd; CS Energy, Callide Power Station; CSBP Ltd; Delta Electricity; Eraring Energy; Loy Yang B Power Station; Loy Yang Power Management Pty Ltd; NRG Gladstone; Queensland Alumina Ltd; Rio Tinto Alcan Pty Ltd; Rio Tinto Aluminium Yarwun; SANTOS; Stanwell Corporation Ltd; Tarong Energy; Verve Energy; Worsley Alumina Pty Ltd

For further information about the WTIA National Diffusion Networks and SMART TechNet Projects and OzWeld Technology Support Centres Network contact the WTIA Tel: 02 9748 4443, Fax: 02 9748 2858 or visit our website <http://www.wtia.com.au>

REGISTRATION FORM

ASME IX & AS/NZS 3992 Workshop Gold Coast. QLD

The Education & Training Administrator, WTIA Federal Office
PO Box 6165, SILVERWATER, NSW, 1811

Phone: (02) 9748 4443 Fax: (02) 9748 2858 Email: events@wtia.com.au

Surname: _____ First Name: _____

Position: _____

Company Name: _____

Address: _____

Suburb: _____ State: _____ P'code: _____

Email: _____

Tel: _____ Fax: _____

Venue: Holiday Inn Surfers Paradise Hotel. Registration and details will be confirmed by email

REGISTRATION FEE

\$880* Members

\$990* Non-members

WTIA-AINDT-MA Membership Number: _____

You must quote your membership number to receive the discounted price.

*Fees include GST, course notes, coffee/tea and light lunch each day.

Dietary requirements needed Type _____

Method of Payment: All payments should be made payable to WTIA.

Cheque MasterCard Visa Funds Transfer

Cardholder's 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 info@wtia.com.au.

National Australia Bank BSB: 082 330 Account: 047162875 Branch: 28 George Street, Parramatta, NSW Account Name: Welding Technology Institute of Australia.

IMPORTANT NOTICE

Note: For cancellations received within 15 working days of the workshop, 100% of the fees will be charged. Replacement delegates may be sent in lieu of those cancelled. WTIA reserves the right to cancel workshops 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.

WTIA ABN 69 003 696 526

WTIA – Celebrating 20 years of service to Australian industry in 2009



**OZWELD SCHOOL OF WELDING
TECHNOLOGY SWT-31**

**ASME IX & AS/NZS 3992
QUALIFICATION OF
WELDING PROCEDURES
AND WELDERS**

2-DAY WORKSHOP

Surfers Paradise, Gold Coast, QLD

24 - 25 August 2009

**Prior to the OPE & AINDT
Conference and Exhibition**

The International Operating Pressure Equipment (OPE9) Conference is one of the most successful international engineering conferences run in Australia. The eight previous Australian conferences have attracted hundreds of delegates from Australia and around the world. Combining with the 2009 Australian Institute for Non Destructive Testing (AINDT) Biennial Conference is adding an even larger scope to the Conference and Exhibition, and increasing the number and range of participants. Register now at www.materialsaustralia.com.au

**WTIA WORKING WITH QUEENSLAND
INDUSTRY WITH THE SUPPORT OF**



INTRODUCTION

This is one of a series of Seminars and Workshops held by WTIA on latest developments and practices for the Qualification of Welding Procedures and Welders e.g. AS/NZS 1554, AS/NZS 2980.

Although Australia has its own manufacturing Standards for products such as pressure equipment, welded steel structures, pipelines etc. it is important that industry personnel keep up with latest developments in other widely recognised codes. For example, with reference to ASME IX:

- Some key projects about to take place in Australia involve the ASME Codes;
- Some organisations are using ASME IX on work within Australia;
- Some organisations are looking to be competitive for export work in USA and South East Asia;
- Engineering personnel need to keep abreast of developments even if not using ASME IX;
- ASME IX is referred to in other manufacturing and maintenance codes e.g. ASME B31.1 and B31.3.

The Workshop is intended to deal specifically with ASME IX and AS/NZS 3992 *Pressure equipment – Welding and brazing qualification* which apply to boilers, pressure vessels and piping, and at the same time to highlight the fundamental principles of welding qualifications also adopted in other codes/standards e.g. the ISO series.

Opportunity will be taken to also highlight any significant differences between ASME IX and AS/NZS 3992.

WORKSHOP CONTENT

- An Introduction on the ASME, National Board Code and Standards Australia functions.
- The importance of proper qualification of procedures and personnel will be emphasised.
- The operation of the standards will be described, and demonstration will be given of a check-off system to verify that all required variables and tests have been properly addressed on the three basic documents; Welding Procedure Specification (WPS), Procedure Qualification Record (PQR), the Welders Performance Qualification (WPQ) record.
- The Workshop will cover applications such as the preheat and post-weld heat treatment as well as some difficult applications such as dissimilar base metal thicknesses combined with dissimilar base metals.
- The Workshop will conclude with a complete coverage of the supplementary essential variables for toughness applications.

PROGRAMME

DAY ONE

08:30 – 09:00 Registration
09:00 – 09:15 Introduction of Workshop
09:15 – 10:15 Use of ASME IX and AS/NZS 3992 in total work for pressure equipment
Break (open for questions and answers)
10:15 – 10:30 Overview of ASME Section IX and AS/NZS 3992 Welding Qualifications
10:30 – 12:00 *Lunch*
12:00 – 13:00 Preparation of a Welding Procedure Specification (WPS)
13:00 – 14:30 *Break (open for questions and answers)*
14:30 – 14:40 Preparation of a Procedure Qualification Record (PQR)
14:40 – 15:50 *Break (open for questions and answers)*
15:50 – 16:00 Preparation of a Welders Performance Qualification (WPQ) test
16:00 – 17:00 Question and Answer Time
17:00 – 17:30

DAY TWO

08:00 – 08:15 Temper Bead Weld Repairs Without Post Weld Heat Treatment
08:15 – 09:00 Review of Changes in the Code (Materials and Design)
09:00 – 10:20 Application of a WPS/PQR Check Sheet
10:20 – 10:30 *Break (open for questions and answers)*
10:30 – 12:00 Continuity and Renewal of Welders Performance Qualification
Lunch
12:00 – 12:45 Application of Preheat, PWHT, Dissimilar Thickness and Base Metals
12:45 – 14:30 *Break (open for questions and answers)*
14:30 – 14:40 Review of Supplementary Essential Variables for Toughness Applications
14:40 – 15:50 *Break (open for questions and answers)*
15:50 – 16:00 Review Actual Documentation Examples
16:00 – 17:00 Summary of Workshop and Feedback to Standards Australia
17:00 – 17:30

IMPORTANT

Registrants are encouraged to bring prepared written questions, actual application examples and oral questions. Also bring copy of ASME Section IX – Welding Qualifications and ASME Section VIII – Pressure Vessels or equivalent Australian Standards e.g. AS/NZS 3992 and AS 1210 to the Workshop. The Standard AS/NZS 3992 is currently under revision and is expected to be released early next year. The workshop will explain the existing AS/NZS 3992 and some anticipated changes, and gather feedback for improvement of the Standard.

WHO SHOULD ATTEND?

Types of Personnel:

Production Managers
Welding Engineers, Foremen and Supervisors
QC Managers and System Assessors
Fabrication Managers
Welding Coordinators
Specifiers and Designers
Trainers

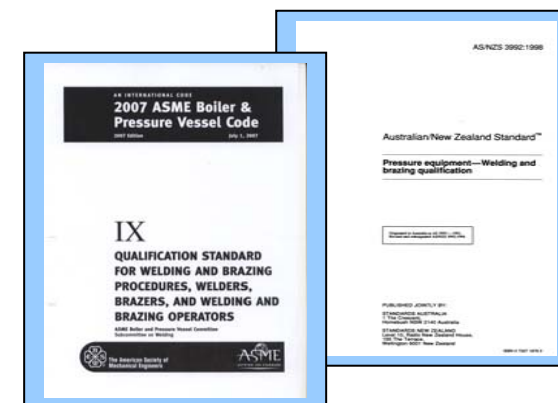
Types of Industry:

Fabrication (light/heavy)	Pressure Equipment
Structural	Manufacturing
Shipping	Quality Assurance
Processing Plant	Maintenance
Oil and Gas & Offshore	Transport
Piping & Pipelines	Inspection
Rail	Water
Defence	Power-Energy

WORKSHOP DETAILS

The 2-day workshop will be held from 08:30 until 17:30 at the location and dates listed overleaf. Bookings are essential as places are limited. Exact venue details will be advised on registration.

Each Workshop delegate numbers will be limited to ensure high teacher-student contact and interaction.



Copies of ASME Section IX – Welding Qualifications and ASME Section VIII – Pressure Vessels or equivalent Australian Standards e.g. AS/NZS 3992 and AS 1210 can be purchased through the WTIA, with WTIA members receiving the members discounted price, providing orders are received by WTIA 4 working weeks prior to the Workshop.