



Welding Technology Institute of Australia

RESEARCH ~ EDUCATION ~ TECHNICAL SUPPORT ~ INFORMATION

Fact Sheet IWS-01 (SWT 09,10,11,12A,12B,12D)

Revision 0 16/12/2014

Job Title: Responsible Welding Coordinator (RWC) – appropriate level of AS/NZS ISO 3834.1:2008 – See Figure 1 below

Qualification and Certification:

IIW International Welding Specialist (IWS) and IIW Certified IWS including Certified AS1796 Certificate 10 and/or AS 2214 Welding Supervisor (where appropriate)

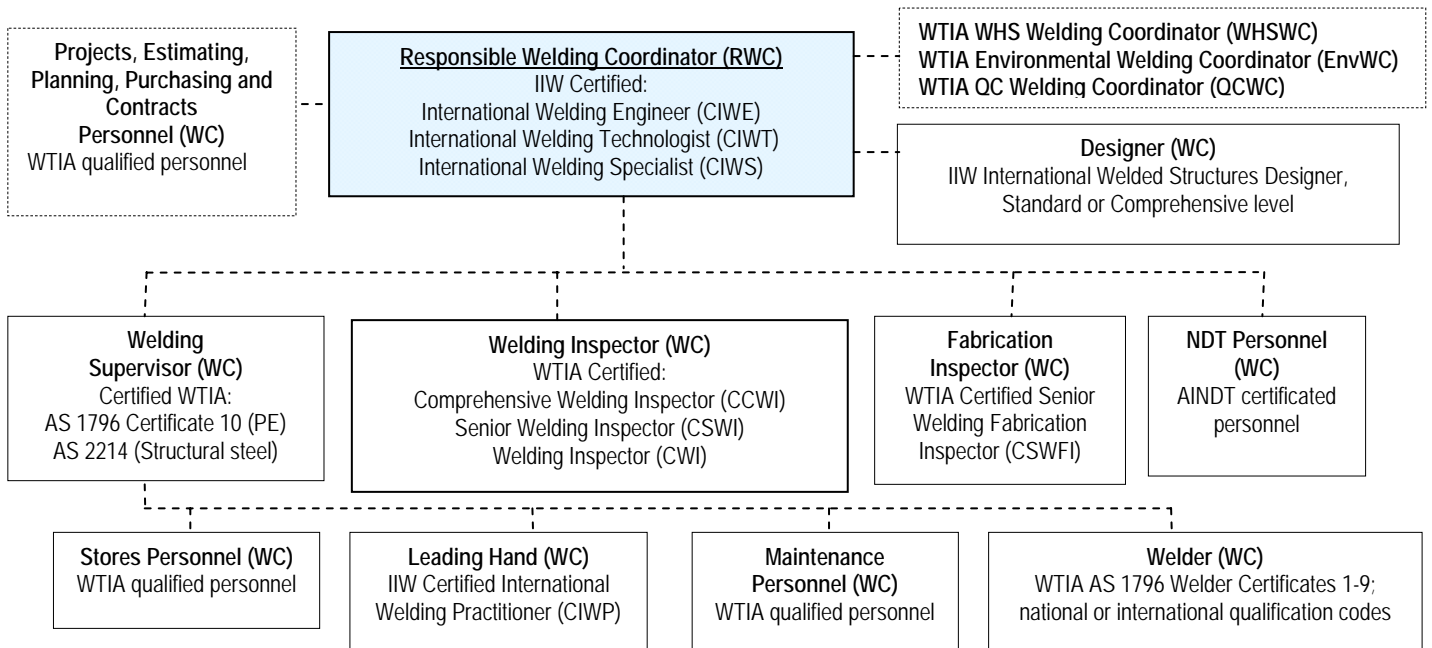
Job Description:

- Perform, supervise and/or oversee company-nominated welding and welding-related activities;
- Have overall responsibility for the quality of these welding and welding-related activities;
- Be authorised to sign on behalf of the organisation in all nominated welding quality related matters or delegate such signing e.g. goods release for despatch, inspection sign-off, accepting technical welding requirements, or verifying that the organisation has complied with all relevant quality considerations in the production of the product.

Welding Coordination Team (WCT) Role – RWC including Welding Supervisor.

A typical company WCT with team members sharing with the Responsible Welding Coordinator (RWC), responsibility for quality to satisfy compliance with AS/NZS ISO 3834:2008 *Quality requirements for fusion welding of metallic materials* and ISO 14731:2006 *Welding coordination – Tasks and responsibilities* as well as productivity, WHS and environmental management is shown below.

Figure 1: The Welding Coordination Team Concept



The key welding coordination tasks & responsibilities of a RWC in a company are shown in Table 1. More detailed activities are given in ISO 14731 or WTIA TGN-3834-05 downloadable on www.wtia.com.au

Table 1: Key welding coordination tasks and responsibilities

<ul style="list-style-type: none"> • Review of Requirements • Technical Review • Subcontracting • Welding Personnel • Equipment • Production Planning • Qualification of the Welding Procedures • Welding Procedure Specifications • Work Instructions • Welding Consumables 	<ul style="list-style-type: none"> • Materials • Inspection and Testing Before Welding • Inspection and Testing During Welding • Inspection and Testing After Welding • Post-weld Heat Treatment • Non-conformance and Corrective Actions • Calibration and Validation of Measuring, Inspection and Testing Equipment • Identification and Traceability • Quality Records
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Guidance on Training Pathways through WTIA OzWeld School of Welding Technology

Two Training Pathways will be available for achieving the IWS qualification and at the same time AS 1796 Certificate 10 and/or AS 2214 Welding Supervisor

Training Pathway 1 Attend the WTIA OzWeld School of Welding Technology training through modules SWT-09, SWT-10, SWT-12A, SWT-11& -12B, SWT12-D and SWT-12C*. Successfully complete the Australian IIW Authorised National Body (ANB) examination and receive your IWS and WTIA AS 1796 Certificate 10 or AS 2214 Welding Supervisor (where appropriate), and with appropriate experience your Certified International Welding Specialist (CIWS) and Certified Welding Supervisor.

Training Pathway 2 Attend a Registered Training Organisation (RTO) and complete the training for Welding Supervisor to AS 1796 Certificate 10 or AS 2214 Welding Supervisor. You then attend the WTIA OzWeld School of Welding Technology training modules SWT-12A, SWT-11& 12B, SWT-12D and SWT-12C*, and if you successfully complete the IIW ANB examination, you will receive your IWS and WTIA AS 1796 Certificate 10 or AS 2214 Welding Supervisor (where appropriate) and with appropriate experience your Certified International Welding Specialist (CIWS) and Certified Welding Supervisor.

Training Pathway 1 above is explained below (Please refer to Figure 2 on page 4)

International Welding Specialist (IWS) and AS 1796 Certificate 10 or AS 2214 Welding Supervisor (where appropriate)

1 If you wish to obtain your International Welding Specialist (IWS) qualification and then certification through the same career path, then you must have as a minimum entry condition a National or State Certificate in Engineering or a related discipline or the equivalent such as the Certificate III in Engineering. (e.g. Trade certificate) or appropriate overseas qualification.

If you wish to obtain your AS 1796 Certificate 10 Welding Supervisor (Pressure Equipment) or AS 2214 Welding Supervisor Certificate (Structural Steel), then you must meet the pre-examination requirements of the latest edition of AS 1796 or AS 2214. These pre-examination requirements can be viewed on www.wtiacertification.com.au or OzWeld School of Welding Technology staff can assist.

2 You now attend five modules of the IWS course. These are usually offered as five one week full time courses or another programme format to suit the group of students. You must also complete 40 hours of **practical education and training** (SWT 12C*) unless exempted (see below) as follows:

- Oxy-acetylene Welding and Cutting – 6 hours
- Manual Metal Arc Welding – 8 hours
- Gas Tungsten Arc Welding – 8 hours
- Metal Inert Gas/Metal Active Gas Welding and Flux Cored Arc Welding – 16 hours

3 You write examination papers SA1, SA2, SA3 and SA4 and if you pass with a minimum of 60% in each examination, and average 65% between SA1 to SA4 examinations, we award you your IIW IWS qualification. Also, if you wish to write the WTIA AS 1796 Certificate 10 and AS 2214 examination, you simply write the WTIA Code Paper B1 (AS 1796 Certificate 10) and/or WTIA Code Paper B2 (AS 2214 Welding Supervisor)

4 Congratulations! You now meet the minimum knowledge requirement for a Responsible Welding Coordinator to AS/NZS ISO 3834 "Quality requirements for fusion welding of metallic materials" and ISO 14731 "Welding coordination – Tasks and responsibilities".

* Most people entering the course from a practical background can request exemption from parts of this training, e.g., apprenticeship, AQTF Competency Standard Units, welder certification.

Training Pathway 2 is explained below under Figure 3. See WTIA School of Welding Technology Fact Sheet G-03 for course venues/dates

Training Pathway 2

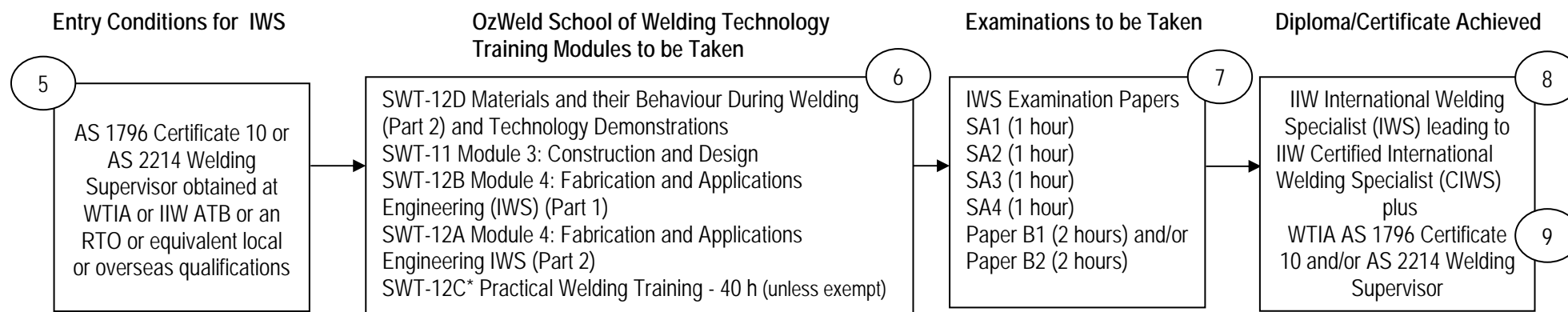


Figure 3

- 5 If you obtained an AS 1796 Certificate 10 or AS 2214 Welding Supervisor or Competency Standard Units MEM 5.24B or similar including overseas qualifications then you might have direct entry to Stage 5, modules SWT-12A, SWT-11 & 12B, SWT-12D, and then write papers SA1, SA2, SA3 & SA4 to obtain your IWS. You need to apply on the IIW form MF-25 for "Alternative Route" (Contact WTIA OzWeld School of Welding Technology) for consideration for this.
- 6 Upon the successful completion of the training modules you then take the examinations SA1, SA2, SA3 & SA4 for your IWS and optionally Code Paper B1 for your WTIA AS 1796 Certificate 10 and/or Code Paper B2 for WTIA AS 2214 Welding Supervisor (where appropriate)
- 7 If you pass with a minimum 60% in SA1, SA2, SA3 and SA4 with an average of 65% as well as a minimum of 65% in either or both Code Papers B1 and B2, you will receive your International Welding Specialist (IWS) and your WTIA AS 1796 Certificate 10 Pressure Equipment or AS 2214 Welding Supervisor Structural Steel (where appropriate)
- 8 Congratulations! You now meet the minimum knowledge requirement for a Responsible Welding Coordinator to AS/NZS ISO 3834 "Quality requirements for fusion welding of metallic materials" and ISO 14731 "Welding coordination – Tasks and responsibilities".
- 9 **Certification:** Application forms are available from the Australian IIW ANB downloadable on www.wtiacertification.com.au. In both Pathways, with appropriate experience, you will be able to apply to the IIW ANB for recognition as an IIW Certified International Welding Specialist (CIWS) and continue your career and professional development by satisfying the following minimum requirements:
 - Have a minimum of two years' experience in the three-year period prior to certification which demonstrates successful application of welding technology at the International Welding Specialist level
 - Provide evidence of scope of experience in accordance with ISO 14731 *Welding coordination – Tasks and responsibilities* at the IWS level

If you complete your training at the WTIA OzWeld School of Welding Technology, there is no charge for initial CIWS certification if you apply within three months of receiving your examination results.

RESPONSIBLE WELDING COORDINATOR (RWC) (IWS)

Training Pathway 1

Pre-requisites, Entry Conditions, Training and Examination Requirements for International Welding Specialist (IWS) Qualification and for AS 1796 Certificate 10 Welding Supervisor and AS 2214 Welding Supervisor Certificate

Entry Conditions for IWS and Welding Supervisor Training

OzWeld School of Welding Technology Training Modules to be Taken

Examinations to be Taken

Diploma/Certification Achieved

Training Pathway 1

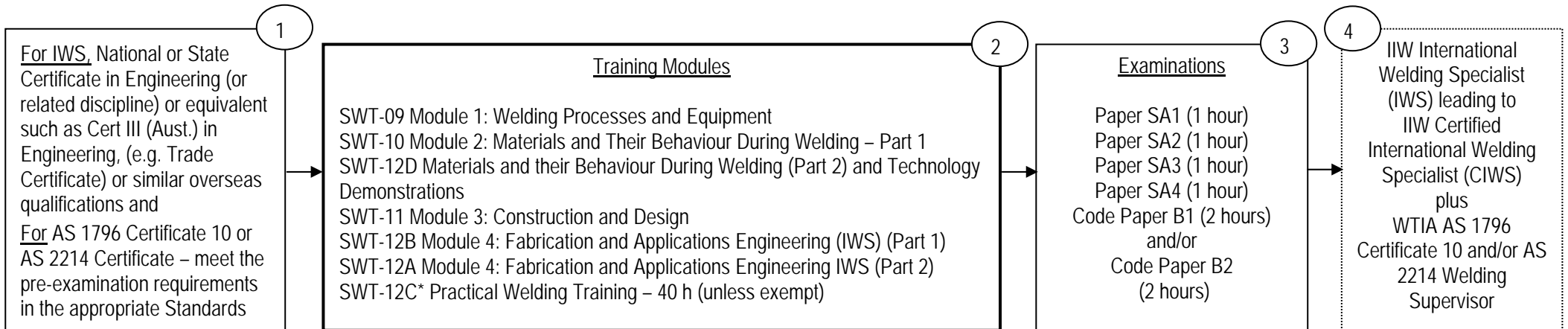


Figure 2

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