

Course Guide

Weld Australia
**Welding
Fundamentals**



Expand Your Technical Capabilities

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.

The Welding Fundamentals online course gives professionals an understanding of some of the significant issues that may arise with welded components, and provides an overview of welding processes, weld defects, testing and welder qualification as required by various Australian and international Standards

Who Should Complete the Course?

The course is suitable for technical personnel including engineers, designers, draughtsmen, production and workshop managers, project managers, and quality control and assurance managers.

Course Delivery

The course is delivered online over six live sessions via Zoom. Participants will have the opportunity to ask our expert welding technology trainer questions in real time. Participants will also have access to our online learning platform where they will find the course notes and a quiz after each session.

Continuing Professional Development

The course includes a final online assessment, with a certificate of completion issued as evidence of continuing professional development.

Course Topics

Welding Processes

This topic provides an overview of the common welding processes. It outlines the advantages and disadvantages of each process to provide a better understanding of why a process may, or may not be, a better option in a particular situation.

Welding Symbols and Welded Joint Configurations

In this topic, participants will come to understand the welding symbols found on construction drawings, as well as common welded joint configurations.

Welding Defects

A welding defect is any flaw that might compromise the effectiveness of the weld or join. In this topic, we run through common welding defects that can be found by visual inspection of welded joints.

Destructive and Non-Destructive Testing

Destructive and Non-Destructive testing methods are regularly used to inspect welds and to qualify weld procedures and welders. This topic provides an overview of these testing methods.

Procedure Qualification Records (PQR), Welding Procedure Specifications (WPS) and Welder Qualifications

Ever wondered what all these letters stand for? This topic will demystify the acronyms. It will explain exactly what a PQR and a QPS are, why you need them and when you need them.

Standards

In this topic, participants will gain an understanding of the requirements of Australian and international welding Standards, including those related to testing, imperfections, welder qualifications and weld procedure qualifications.

Tailored In-House Training

Weld Australia can also deliver this course in-house, tailoring the content to suit the needs of your business and employees.

Our expert team will provide a comprehensive lists of topics, from which you can select the six that will be most beneficial for your team.

For details, contact: training@weldaustalia.com.au



“As a supervisor, the course gave me a much better understanding of what to look for on a welding job.”

Course Costs & Further Details

Please visit the Weld Australia website for current course costs and further details: www.weldaustalia.com.au



Further Information

For further information, or to enrol in a Weld Australia training course, please contact:

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Weld Australia Training & Certification

Weld Australia delivers a comprehensive range of training and certification services, designed to help Australian welders and fabrication companies achieve and maintain a competitive advantage.

As the premier welding certification body in Australia, an International Institute of Welding (IIW) Authorised Nominated Body (ANB) and an Authorised Training Body (ATB), Weld Australia offers a range of individual certifications, including:

- ✓ Welding Inspector
- ✓ Welding Specialist
- ✓ Welding Technologist
- ✓ Welding Engineer
- ✓ AS1796 Welding Supervisor Certificate 10
- ✓ AS2214 Welding Supervisor

