

JOIN POLYETHYLENE PLASTIC PIPELINES USING ELECTROFUSION WELDING

What is electrofusion welding?

Electrofusion is a highly effective method for joining HDPE and other plastic pipes, utilising specially designed fittings with integrated electric heating elements to seamlessly weld joints.

One of the primary advantages of electrofusion welding is its operator-friendly nature, eliminating the need for complex or hazardous equipment. A trained Electrofusion Welder is guided through the process, with welding parameters tailored to the type and size of the fitting. The quality of electrofusion fittings varies, and precision in positioning the energising coils ensures uniform melting, resulting in a strong joint with minimised welding and cooling times.

Operators must be qualified according to local and national regulations. In Australia, an Electrofusion Course, typically completed in 8 hours, is essential. Training emphasises the accurate fusion of electrofusion fittings, covering both manual and automatic fittings and focusing on critical factors such as preparation, timing, temperature, pressure, and cooldown.

To maintain qualification, operators can subject their fittings to testing, involving the examination of weld integrity through the careful dissection of the fitting. This thorough process ensures ongoing competency and adherence to quality standards in electrofusion welding.

Our Electrofusion training comprehensively covers the following key aspects:

- **Identifying Compatibility of Commercial Electrofusion Control Systems:**
Gain proficiency in recognising and understanding the compatibility of various commercial electrofusion control systems.
- **Maintaining and Adjusting Electrofusion Control Unit Equipment:**
Learn the intricacies of equipment upkeep and the ability to make precise adjustments to electrofusion control units for optimal performance.
- **Performing Electrofusion Welding Operations:**
Acquire hands-on experience and mastery of the techniques involved in executing electrofusion welding operations with precision.
- **Visually Inspecting Completed Electrofusion Joints:**
Develop the skill to visually inspect and evaluate finished electrofusion joints, ensuring adherence to quality standards and specifications.



Upon successful completion of the training, attendees receive a comprehensive set of credentials, including:

Statement of Attainment:

An official document certifying the successful completion of the training program.

Digital Welder's Card:

A digital card providing convenient access to your welding credentials, ensuring quick and easy verification of your qualifications. Elevate your professional profile with our thorough and recognised certification process.

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