



Investing in First Nations Talent

Dear Valued Client,

Acu-Tech Piping Systems, in collaboration with Polyweld Tech Academy, is excited to introduce the **Project FNPT (First Nations Poly Training) 2025** - a meaningful initiative designed to create career pathways for First Nations peoples in the piping industry.

At Acu-Tech Piping Systems, we are committed to fostering partnerships with businesses and communities across Australia to identify and support eligible candidates for **fully funded Poly Welding Training** at Polyweld Tech Academy throughout 2025.

Empowering First Nations Communities

This initiative aims to equip First Nations peoples with valuable skills and employment opportunities, strengthening workforce participation and industry growth.

How can you help?

We invite you to join us in supporting this initiative by helping to identify eligible candidates.

- **Partner with us:** Collaborate with us to empower First Nations communities while helping to build a skilled workforce in the industry.
- **Nominate candidates:** If you know individuals from First Nations communities who could benefit from this training, we encourage you to nominate them.

Training Details:

- **Fully Funded:** This comprehensive training program to the value of \$895.00 is fully financed by Acu-Tech Piping Systems.
- **Training Courses Covered:**
 - Join Polyethylene Plastic Pipelines using Butt welding (PMBWELD301E)
 - Join Polyethylene Plastic Pipelines using Electrofusion Welding (PMBWELD302E)
- **Training Provider:** Polyweld Tech Academy, a registered training organisation and NATA accredited laboratory.
- **Limited Availability:** Acu-Tech Piping Systems has dedicated and secured thirty (30) training slots, so early nominations are encouraged.

To nominate a candidate, please complete the nomination form by clicking the link: [2025 First Nations Poly Training \(FNPT\) Nomination Form](#)

We believe this initiative will have a significant positive impact on both individuals and the industry. We appreciate your support and look forward to working with you on this important project.

Sincerely,

Acu-Tech Piping Systems

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JOIN POLYETHYLENE PLASTIC PIPELINES USING BUTT WELDING

What is Butt welding?

Butt Fusion stands as a prevalent technique for connecting HDPE Pipe. Butt welding is a welding technique used to join two pieces of plastic material together along a common edge in a linear fashion. The term "butt" in butt welding refers to the ends of the two pieces being butted together. This method is commonly employed in the welding of HDPE pipes.

In the context of HDPE pipe welding, for example, the process involves heating the two pipe ends using a welding machine, often to a molten or semi-molten state. Once heated, the two ends are pressed together with force, and the material cools and solidifies, creating a strong and durable weld. The key feature of butt welding is that it produces a continuous and smooth joint along the entire length of the welded seam.

Butt welding is widely used in various industries where a continuous and robust joint is essential, such as in the construction of pipelines, fabrication of structural components, and manufacturing of pressure vessels. The process requires careful control of temperature, pressure, and alignment to ensure a high-quality and reliable weld. This process involves the utilisation of a Butt-Welding machine to securely grip, align, and heat the two pipe ends. Subsequently, these heated ends are hydraulically pressed together and held in position until the fusion is complete, seamlessly welding the two ends into a cohesive joint.

Our Butt welding training comprehensively covers the following key aspects:

- **Identifying Material Compatibility:**
Understand and recognise the compatibility of materials essential for effective welding.
- **Calculating Pipe Welding Parameters:**
Acquire the skills to calculate and determine the precise welding parameters necessary for optimal results.
- **Maintaining and Adjusting Welding Equipment:**
Learn the intricacies of equipment upkeep and the ability to make necessary adjustments for seamless welding operations.
- **Performing Butt Welding Operations:**
Master the techniques and procedures involved in executing butt welding operations with precision and efficiency.
- **Visual Inspection of Completed Joints:**
Develop the capability to visually inspect and evaluate completed joints, ensuring adherence to quality standards.



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.

Welding Stamp with Unique Welder Number:

A personalised stamp equipped with a unique welder number for official recognition and traceability.

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.

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.