



### WELDING APPROVALS

Approval testing is carried out prior to production commencing and is an essential quality assurance measure

## 4 KEY STEPS TO OBTAINING WELDING CERTIFICATION

### PREPARATION OF A P-WPS

A preliminary welding procedure specification provides direction to the welder to prevent errors and ensure repeatable joints

### Electrofusion Welding Standard

SABS 10268 Welding of Thermoplastics Part 2 Electrofusion Welding



The Centre for Polymer Technology is a SAPPMA approved third party pipe testing laboratory able to perform a wide range of pipe welding tests



### WELDING OF TEST PIECE

An examining body, normally a third party inspecting authority will witness a test weld being made to sign off the welding procedure.

### VISUAL INSPECTION & PROPERTY TESTING

The test piece is visually inspected and mechanically tested for compliance with the relevant standard.

During the approval tests, the welder will be expected to show adequate practical experience and knowledge of the welding process, materials, equipment and safety requirements.



After certification, all welds produced need to go through visual inspections on an ongoing basis and must be tested. Further product sampling and testing will also be performed on a regular basis as agreed upon.



### CERTIFICATION

Once the results of the tests have been assessed and approved, a certification will be issued by the inspecting authority

## TRAINING REQUIREMENTS

### WELDER



The welder must be competent with basic welding equipment and processes as well as have a general understanding of thermoplastics and its variable properties

Provided By: Plastics SA

### EQUIPMENT & FITTINGS



Further training is required on the use and functionality of electrofusion welding equipment such as machines, couplers and fittings specific to the manufacturer

Provided By: Supplier

### CLIENT / END USER



This includes all aspects of design, pipe fitting applications, jointing processes, welding visual inspections and mechanical property testing required for a successful joint.

Provided By: Marley