



Polytec® PE Pipeline Design & Installation

Training Agenda

PE Materials

- PE physical properties short/long term
- Material properties
- Compound differences LDPE/MDPE/HDPE
- Degradation

Welded Joints

- Butt weld process and procedures
- Electrofusion systems and principles
- Practical welding with manual and automatic supplier systems

Joint Testing

- Testing welded joints
- Weld strength factors
- Hydrostatic pressure joint testing

Handling and Transport

- Field storage
- Transport handling

Installation

- Bedding and backfill
- Trench details
- Embankment details
- Pipe cover

Commissioning

- Pressure testing mains and services
- Drain line testing
- Water quality commissioning
- Gas line testing

PE Pipe Systems Standards

- AS/NZS Standards for PE80, and PE100 materials pipe and fittings applications
- Test requirements
- Pressure classifications and design factors

Mechanical Joints

- Flanges
- Shouldered ends
- Compression joints
- Repair systems

Tapping systems

- Electrofusion and saddle fusion tapping systems
- Mechanical seal systems

Design

- Hydraulic flow
- Elevated temperature use
- Expansion/contraction
- Chemical resistance
- Pressure class selection
- Contaminated zone use
- External load design
- Negative pressure design
- Surge/fatigue design

Evaluation

- Theory examination
- In program discussions
- Practical exercises

Polytec® PE Pipeline Design & Installation Training Program

- Combines theory with practical procedures
- Provides the latest international information
- Hard copy reference manual supplied
- Course contact duration 16 hours
- Fully accredited program
- Applicants who successfully complete all competency evaluation requirements are issued with security coded accreditation cards.

Course contact time 16 hours



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Polytec[®]
PE Pipeline

- The POLYTEC[®] PE PIPELINE Program is Nationally available, and is delivered by LeHunt and Associates in partnership with licensed TAFE Colleges, and Skills Centres.
- This provides an internationally expert system together with localised support facilities.
- The POLYTEC[®] PE PIPELINE Program can also be provided in house with specific clients to meet individual organisation requirements.
- Participants who successfully complete all the theoretical and practical evaluation requirements are issued with security coded accreditation documents.

POLYTEC[®] PE PIPELINE
is available from



Polytec[®]
PE Pipeline

New PE materials, and AS/NZS Standards for PE Compounds, Pipes, and Fittings represent considerable developments to previous specifications, and installation practices. Increases in pipe diameters to 2000 mm sizes, and use in mining, irrigation, potable water, gas distribution, coal seam gas gathering, and wastewater applications provide challenges for designers, installers, and operators of PE pipeline systems.

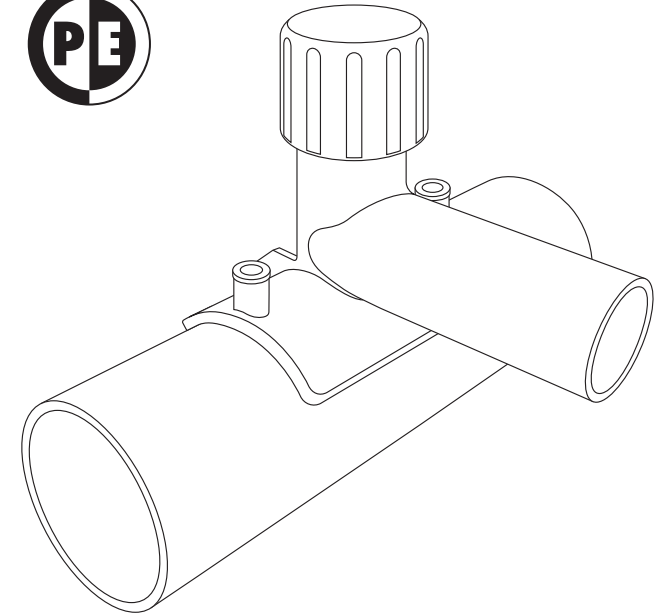
LeHunt and Associates have developed the POLYTEC[®] PE PIPELINE Design and Installation training and accreditation program drawing on some 30 years engineering experience in PE pipeline technology including design, manufacturing, product development, research, testing, field technical service, and specification development.

We have drawn on our local research programs, together with our UK, and European co-operative research programs, and technical liaison to develop world's best practice systems to meet industry needs in PE pipeline installations.



Technology Transfer – Project Management

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