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COURSE BROCHURE

Pipeline Repair Sleeve, Clamp and Composite Wrap Selection Training Course

20 – 24 December 2026
Istanbul

Pipeline Repair Sleeve, Clamp and Composite Wrap Selection Training Course

Ref: 2887_110312 **Date:** 20 – 24 December 2026 **Location:** Istanbul **Fees:** 5500 GBP

Pipeline Repair Sleeve, Clamp and Composite Wrap Selection is a 1-week training course for pipeline integrity and maintenance engineers who must match a defect to the right repair and produce a repair method selection and procedure. Ageing transmission networks, tighter outage windows and growing scrutiny of temporary repairs make sound repair choices a daily integrity decision. Jupiter Prime Training delivers this Pipeline Repair Sleeve, Clamp and Composite Wrap Selection course.

Why Pipeline Repair Sleeve, Clamp and Composite Wrap Selection Matters Now

Three forces shape repair practice today. Ageing lines reveal corrosion, dents and cracks faster than replacement budgets allow. Short shutdown windows push engineers towards in-service reinforcement. Owners and auditors ask how each repair was qualified and how long it will last. A wrong sleeve or wrap risks a leak at the repair edge and a second excavation; a sound choice restores safe operating pressure with clear records. The course rests on the recognised industry codes for pipeline repair, described in general terms.

Who Gains Most from Pipeline Repair Sleeve, Clamp and Composite Wrap Selection

- Integrity engineers who classify anomalies and recommend whether to repair, derate or replace a joint
- Maintenance engineers who plan excavations, isolations and repair crew sequencing
- Welding and materials engineers who approve fillet welds, sleeve fit-up and in-service welding conditions
- Asset owners and engineering leads who sign off temporary and permanent repair status
- Quality and inspection engineers who verify installation, cure and repair documentation

Asset teams gain most when integrity, maintenance and quality engineers attend together.

Pipeline Repair Sleeve, Clamp and Composite Wrap Selection Capabilities

Participants weigh steel, mechanical and composite options against pressure, access and service life.

- Assess defect type, depth and orientation against repair suitability — the integrity engineer's repair or replace call
- Weigh reinforcing sleeves against pressure-containing sleeves — the asset owner's permanence decision
- Specify bolted clamp sealing, bolting and leak-box arrangements — the maintenance lead's isolation plan
- Calculate composite wrap layer count and overlap from defect geometry — the repair designer's laminate design
- Apply in-service welding controls for burn-through and hydrogen cracking — the welding engineer's approval
- Build a repair record that supports future inspection — the owner's integrity history

Key Pipeline Repair Sleeve, Clamp and Composite Wrap Selection Terms

- Reinforcing sleeve — a split steel shell without end welds that restores hoop strength but cannot contain a leak.
- Pressure-containing sleeve — a steel shell fillet-welded to the carrier pipe at both ends, able to hold product if the defect leaks.
- Bolted clamp — a sealed mechanical enclosure that can contain an active leak.
- Composite wrap — layers of fibre-reinforced resin bonded around the pipe with load-transfer filler to reinforce wall loss.
- Burn-through — penetration of a thin pipe wall by the welding arc during in-service welding, causing release of product.
- Design life of repair — the period over which a repair is qualified to carry load before inspection or replacement.

Pipeline Repair Sleeve, Clamp and Composite Wrap Selection Day by Day

Day 1: Defects and Repair Decisions

- Defect Classification by Mechanism and Geometry — Which Repairs Are Eligible
- Remaining Strength Estimates — Repair Versus Pressure Reduction
- Temporary and Permanent Repair Status — Owner Sign-Off Path
- Excavation and Safe Working Pressure Setting — Crew Exposure Limits
- Repair Decision Tree Construction — Consistent Choices Across Assets

Day 2: Steel Sleeve Repairs

- Reinforcing Sleeve Fit-Up and Epoxy Filling — Hoop Load Transfer
- Pressure-Containing Sleeve End Fillet Welds — Leak Containment Choice
- In-Service Welding Heat Input Control — Burn-Through and Cracking Risk
- Annulus Pressurisation and Venting — Sleeve Integrity Verification
- Girth Weld and Seam Weld Defect Coverage — Sleeve Length Selection

Day 3: Clamps, Wraps and Cut-Out Replacement

- Bolted Clamp Seal and Bolting Selection — Active Leak Containment
- Composite Wrap Laminate Design and Cure — Wall Loss Reinforcement Limits
- Surface Preparation and Filler Profiling — Bond Reliability
- Hot Tapping and Bypass Arrangements — Uninterrupted Flow During Replacement
- Cut-Out Pipe Spool Replacement — When Only New Pipe Will Do

Day 4: Repair Qualification and Records

- Repair System Qualification Evidence — Vendor Data Acceptance
- Installer Competence and Hold Points — Field Quality Assurance
- Non-Destructive Testing of Repairs — Acceptance Before Backfill
- Repair Register and Geographic Location Data — Future Inspection Planning
- In-Line Inspection Signals at Repaired Joints — Reassessment Triggers

Day 5: Practising the Repair Method Selection and Procedure

- Defect Case Screening Using the Decision Tree — Repair Option Shortlist
- Sleeve Versus Clamp Versus Wrap Comparison — Cost, Outage and Life
- Welding and Cure Hold Point Planning — Crew Sequence Approval
- Repair Record Template Completion — Handover to Integrity Records
- Repair Method Selection and Procedure — Final Peer Challenge

Applying Pipeline Repair Sleeve, Clamp and Composite Wrap Selection After the Course

- Apply the repair decision tree to the next three excavation findings.
- Audit the existing repair register for temporary clamps past their design life and schedule permanent repairs.

Pipeline Repair Sleeve, Clamp and Composite Wrap Selection Questions FAQ

What is pipeline repair sleeve, clamp and composite wrap selection and why does it matter now?

It is the engineering choice of the repair that restores a damaged line safely. More defects are now repaired in service, so the choice decides whether a repair lasts.

Which roles gain most from pipeline repair sleeve, clamp and composite wrap selection?

Integrity, maintenance, welding and quality engineers gain most. They share the decision from defect classification to records.

How does a pipeline repair sleeve, clamp and composite wrap selection course differ from a defect assessment course?

It starts where defect assessment ends. Assessment decides whether a flaw is acceptable; this course decides how an unacceptable flaw is repaired, qualified, installed and recorded.

What do you bring back from pipeline repair sleeve, clamp and composite wrap selection training?

You bring back a repair method selection and procedure tested on realistic defect cases. It includes a decision tree, hold points and a record template.

Pipeline Repair Sleeve, Clamp and Composite Wrap Selection: The Way Forward

The repair method selection and procedure first informs the choice between sleeve, clamp, wrap or cut-out on the next defect excavated. Integrity engineers use it to recommend, maintenance leads to plan the crew, and asset owners to approve status. After its first use, revisit the design life assumptions for temporary repairs, since these drive reinspection dates across water injection and gas transmission lines alike.