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COURSE BROCHURE

# Pipeline Project Delivery from Front-End Design to Handover Training Course

4 – 8 July 2027
Doha

# Pipeline Project Delivery from Front-End Design to Handover Training Course

**Ref:** 2885_110277 **Date:** 4 – 8 July 2027 **Location:** Doha **Fees:** 6500 GBP

Pipeline Project Delivery from Front-End Design to Handover is a 1-week training course for pipeline project managers and engineers who carry a line from concept selection through construction to operations acceptance, producing a pipeline project execution plan. Long linear assets cross many landowners and permits, so a weak early decision multiplies cost. Jupiter Prime Training runs this course for those who own that delivery chain.

## Why Pipeline Project Delivery from Front-End Design to Handover Matters Now

Three forces shape pipeline delivery today. Owners push for faster first flow, which compresses front-end engineering and tempts teams to start procurement before the route and design basis are settled. Contractor markets for spreads, line pipe mills and specialist crossings remain tight, so contracting strategy decides who carries schedule risk. Operators also expect a cleaner handover, with complete records and trained staff. Handled badly, the project faces claims, rework and a slow start-up. The course rests on stage-gated capital project practice and recognised earned value methods.

## Who Gains Most from Pipeline Project Delivery from Front-End Design to Handover

- Project managers responsible for scope, budget and gate submissions on a pipeline
- Pipeline engineers who own the design basis, route and hydraulic assumptions
- Project controls specialists who build the schedule, estimate and progress measurement
- Contracts and procurement leads who package line pipe, construction and crossing works
- Construction and completions engineers who prepare the line for operations acceptance

Owner teams preparing a new trunkline gain most when engineering, controls and contracts members attend together.

## Pipeline Project Delivery from Front-End Design to Handover Capabilities

Participants link each stage of a pipeline project to the evidence a gate reviewer or operator expects to see.

- Assess front-end engineering maturity against gate readiness criteria — sanction decision makers
- Design a contracting strategy that allocates route, ground and weather risk — commercial leadership
- Build a resource-loaded schedule with spread productivity and crossing durations — construction contractors
- Apply earned value and cost forecasting to pipeline progress — project sponsors
- Specify interface registers between line pipe supply, spreads and stations — package managers
- Plan mechanical completion, system turnover and records handover — operations acceptance teams

## Key Pipeline Project Delivery from Front-End Design to Handover Terms

- Front-end engineering design — the stage that fixes route, design basis and cost estimate accuracy before final investment sanction.
- Design basis memorandum — the agreed record of flow rates, pressures, fluids and design life that all later engineering follows.
- Construction spread — a self-contained crew and equipment train that clears, strings, welds, lowers and backfills a length of line.
- Interface register — a controlled list of every point where two contracts, systems or parties must exchange information or work.
- Mechanical completion — the point when a pipeline section is built and tested to design and ready for commissioning activities.
- Turnover package — the set of certificates, test records and drawings that transfers a system from the project to its operator.

## Pipeline Project Delivery from Front-End Design to Handover Day by Day

## Day 1: Project Framing and Front-End Engineering

- Stage Gate Structure — Deliverables Required At Each Sanction Point
- Concept Selection For Route And Capacity — Trunkline Versus Looped Options
- Design Basis Memorandum — Locking Flow, Pressure And Design Life Early
- Front-End Engineering Deliverables List — Estimate Accuracy And Schedule Confidence
- Owner Team Organisation — Roles Between Owner, Engineer And Contractor

## Day 2: Contracting Strategy and Land Access

- Contract Model Comparison — Lump Sum, Reimbursable And Alliance Packages
- Package Split Decisions — Line Pipe, Spreads, Crossings And Stations
- Right-Of-Way Acquisition Plan — Landowner Agreements And Access Timing
- Permit And Consent Tracker — Environmental, Crossing And Work Permits
- Long-Lead Procurement — Line Pipe Mill Slots, Coating And Valves

## Day 3: Schedule, Cost and Progress Control

- Spread Productivity Modelling — Daily Weld Rates And Terrain Factors
- Resource-Loaded Schedule — Critical Path Through Crossings And Tie-Ins
- Cost Estimate Classes — Contingency Setting At Each Gate
- Earned Value Measurement — Weighted Progress For Linear Construction
- Change Control Board — Variation Approval And Forecast Updates

## Day 4: Interfaces, Completions and Operations Readiness

- Interface Management Plan — Ownership Of Every Contract Boundary
- Quality Surveillance Of Spreads — Weld Repair Rates And Coating Checks
- Completions Database — System Breakdown And Punch List Categories
- Mechanical Completion Criteria — Test Records, Drying And Pigging Evidence
- Operations Readiness Review — Staffing, Procedures And Spare Parts

## Day 5: Practising the Pipeline Project Execution Plan

- Gate Readiness Self-Assessment — Applying Front-End Deliverables Criteria
- Contracting And Land Access Sequence — Applying Package And Permit Decisions
- Integrated Schedule And Cost Baseline — Applying Spread And Estimate Models
- Handover Sequence And Turnover Plan — Systems Released To Operations
- Pipeline Project Execution Plan — Final Peer Challenge And Sign-Off

## Applying Pipeline Project Delivery from Front-End Design to Handover After the Course

- Run a gate readiness self-assessment on a current pipeline project and list the missing front-end deliverables.
- Build an interface register for the contract boundaries between line pipe supply, spreads and stations.

## Pipeline Project Delivery from Front-End Design to Handover Questions FAQ

### What is pipeline project delivery from front-end design to handover and why does it matter now?

It is the management of a pipeline project from concept and design basis through contracting, construction and completions to operations acceptance. It matters now because compressed schedules and tight contractor markets punish weak early decisions.

### Which roles gain most from pipeline project delivery from front-end design to handover?

Project managers, pipeline engineers, project controls specialists, contracts leads and completions engineers gain most. You benefit most if you prepare gate submissions or manage construction packages.

## How does pipeline project delivery from front-end design to handover differ from a pipeline construction engineering course?

It concentrates on project decisions rather than construction technique. A construction course covers welding and laying methods instead.

## What do you bring back from pipeline project delivery from front-end design to handover?

You bring back an execution plan drafted for a real or realistic pipeline. It sets out gate deliverables, packages, baselines and turnover.

## Pipeline Project Delivery from Front-End Design to Handover: The Way Forward

The pipeline project execution plan first informs the sanction decision at the next gate and the choice of contract packages. Project sponsors, controls teams and future operators use it to agree baselines and handover expectations. After mechanical completion of the first section, revisit spread productivity and interface assumptions.