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COURSE BROCHURE

Production Facility Project Estimating and Scheduling Training Course

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Registered in the United Kingdom and Saudi Arabia

Production Facility Project Estimating and Scheduling Training Course

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Production Facility Project Estimating and Scheduling is a 1-week training course for project planners, cost engineers and project managers on oil and gas production projects, and each participant builds an estimate and baseline schedule pack for one wellpad, flowline or tie-in scope. Brownfield work around live production now dominates many capital budgets, and shutdown windows leave little room for error. Jupiter Prime Training delivers this production facility project estimating and scheduling course.

Why Production Facility Project Estimating and Scheduling Matters Now

Three groups shape these projects today. Asset owners want more barrels from existing fields through hook-ups, compression additions and debottlenecking rather than new plants. Operations teams control access, permits and shutdown dates, so every tie-in depends on their calendar. Partners and finance teams challenge estimates at each stage gate before releasing funds. Projects estimated and sequenced well slot into production windows; poorly prepared ones overrun, defer output and lose partner trust. The course rests on the stage-gate front-end loading FEL model, an estimate classification system by project maturity, and the critical path method CPM, described in general terms.

Who Gains Most from Production Facility Project Estimating and Scheduling

- Planners who build activity networks for wellpad, flowline and tie-in scopes
- Cost engineers who prepare quantity-based estimates and contingency for stage gates
- Project leads who balance construction sequencing against production constraints
- Field engineers who supply quantities, durations and access limits from site

Capital project groups inside producing assets gain most when planners and cost engineers from the same portfolio attend together.

Production Facility Project Estimating and Scheduling Capabilities

Participants price and sequence a gas compression tie-in from scope sketch to a shutdown-ready baseline.

- Specify estimate class, accuracy range and contingency from scope maturity — stage gate approvers
- Build a work breakdown structure that links cost codes and schedule activities — cost control
- Calculate quantities, unit rates and indirects for hook-up scopes — budget holders
- Design a CPM network with shutdown and permit constraints — operations planners
- Weigh resource loading of crews and cranes against site limits — construction contractors
- Apply baseline, progress and forecast rules for schedule control — project steering meetings

Key Production Facility Project Estimating and Scheduling Terms

- Estimate Class — a grade of estimate defined by scope maturity, method used and expected accuracy range.
- Contingency — an amount added to the estimate for undefined items expected within the scope, not for scope changes.
- Work Breakdown Structure WBS — a hierarchy dividing project scope into deliverables, used for both cost codes and activities.
- Critical Path — the longest chain of linked activities, which sets the earliest possible finish date of the project.
- Total Float — the time an activity can slip without delaying project completion.
- Baseline Schedule — the approved schedule against which progress, delay and forecast completion are measured.

Production Facility Project Estimating and Scheduling Day by Day

Day 1: Production Projects and Stage Gates

- Production Facility Project Types — Wellpads, Flowlines, Compression and Tie-Ins
- Front-End Loading Stage Gates — Funding Decisions at Each Phase
- Estimate Classification by Scope Maturity — Accuracy Expectations
- Brownfield Constraints and Live Plant Interfaces — Access and Permits
- Scope Basis Document — Agreed Starting Point for Pricing

Day 2: Building the Estimate

- Work Breakdown Structure and Cost Codes — Linking Scope to Money
- Quantity Take-Off From Sketches and Line Lists — Direct Cost Basis
- Unit Rates, Crew Productivity and Location Factors — Labour Cost
- Indirects, Owner Costs and Escalation — Full Estimate Picture
- Contingency Setting and Range Estimating — Funding Confidence

Day 3: Critical Path Scheduling

- Activity Definition and Duration Estimating — Realistic Field Durations
- Logic Links, Lags and Constraints — Network Integrity
- Forward and Backward Pass — Critical Path and Total Float
- Shutdown Window and Hot Tap Sequencing — Tie-In Timing
- Procurement Lead Times for Long-Lead Items — Float Erosion Risk

Day 4: Resources and Schedule Control

- Resource Loading of Crews, Cranes and Rigs — Peak Manpower Limits
- Resource Levelling and Smoothing — Trade-Off With End Date
- Baseline Approval and Change Control — Frozen Reference Point
- Progress Measurement and Earned Value Indicators — Status Reporting
- Schedule Forecasting and Recovery Options — Steering Decisions

Day 5: Practising the Estimate and Baseline Schedule Pack

- Estimate Build for an Onshore Wellpad Hook-Up — Class and Contingency
- Network Exercise for an Offshore Riser Tie-In — Shutdown Fit
- Resource Clash Case on a Gas Compression Upgrade — Levelling Choice
- Stage Gate Challenge Session — Defending Numbers to Partners
- Estimate and Baseline Schedule Pack — WBS, Estimate, CPM Network and Control Rules

Applying Production Facility Project Estimating and Scheduling After the Course

- Reclassify the estimate of one upcoming tie-in scope and reset its contingency to match scope maturity.
- Rebuild the logic of one live schedule around its next shutdown window and check float on critical tie-ins.

Production Facility Project Estimating and Scheduling Questions FAQ

What is Production Facility Project Estimating and Scheduling and why does it matter now?

It is pricing and sequencing wellpad, flowline, compression and tie-in projects around live production. Brownfield work and tight shutdown windows make accurate estimates and schedules decisive for funding and output.

Which roles gain most from Production Facility Project Estimating and Scheduling?

Project planners, cost engineers, project leads and field engineers working on capital projects inside producing assets gain most.

How does Production Facility Project Estimating and Scheduling differ from a scheduling software course?

It concentrates on estimating and sequencing decisions for production facility scopes rather than software functions, and joins cost and time in one baseline.

What do you bring back from Production Facility Project Estimating and Scheduling?

You bring back an estimate and baseline schedule for one real scope, with WBS, contingency, CPM network and control rules ready for the next stage gate.

Production Facility Project Estimating and Scheduling: The Way Forward

The estimate and baseline schedule pack gives each project one record of scope, cost and sequence. Its first use is supporting the funding request at the next stage gate. Planners, cost engineers and operations schedulers use it to agree tie-in dates. After its first shutdown, revisit how actual durations compared with the planned network.