



Facilities Project Management - FPM - eLearning Course

COURSE

About the Course

This course addresses Conventional and Unconventional (Shale) project management principles and practices as they relate to engineering design, procurement, and construction activities. Upon completion of this course, the participant will know what the engineering, procurement and construction phases entail and how to identify and organize project teams. You will also be able to use fit-for purpose project management techniques and project control tools to facilitate successful project outcomes. The specific training received in schedule and cost management will help the project manager make the best decisions possible. Participants will understand how the project management, drilling and completion, HSE, land, production and transportation disciplines relate to one another and what tools are available for the project manager to use to ensure interfaces among key stakeholders are managed.

Duration: Approximately 30 hours of self-paced, online work.

See demo online learning module

This course counts toward PMI Project Development Units (PDUs) through continuing education. Completion Certificates may be submitted to PMI as required to document third-party training.

Target Audience

Personnel working on development projects in the upstream, midstream, downstream, and transportation segments of the petroleum industry. This includes project managers, project engineers, facility engineers, production and operations engineers, wellsite supervisors, project controls representatives, and supply chain personnel.

You Will Learn

- What each of the petroleum industry development segments are
- The process, characteristics and challenges associated with petroleum program management
- How project teams use the stage-gate petroleum project development system used in the industry today
- What good governance is
- How governance guides programs and projects, including the seven elements necessary for effective management
- How you can adjust the stage-gate project development system using project complexity criteria
- The key roles and responsibilities of the project sponsor, project manager, decision board, and integrated team members

- Explain what an organization breakdown structure is and describe the advantages & disadvantages of the matrix- and task-force types of project organizations
- Explain the concept of project manager competence and describe the skills needed in the technical, business, and leadership skill areas
- List the characteristics of a high performing team and describe the key steps in a conflict resolution process
- How to manage influential internal and external stakeholders for a field development project
- How to create a plan for developing a scope of work for your project
- The process for developing a sound project scope statement using the project charter and the preliminary scope statement
- How to verify a scope of work using a work breakdown structure
- Explain what a project execution plan is and how the team uses it to deliver the scope of work
- How to use the project execution plan to facilitate scope delivery
- How engineering design progresses through each development stage of the project development system
- How to improve the value of a project by selecting Value Improving Practices that focus on key value drivers such as cost, schedule, operability, and maintainability
- Explain why validation and verification of design engineering deliverables is a best practice
- Techniques for controlling the facility engineering design effort
- The five major procurement functional areas and how each area facilitates procurement of quality equipment, materials, and supplies in a timely manner for a project
- The key activities of each of the following procurement topics and describe the activities associated with each one: Procurement Planning, Purchasing, Tracking Manufacturing, Logistics Management, Site Materials Handling
- Describe the major activities in the joint service buyer and seller contracting process
- How to effectively manage the construction initiation and execution process
- How the structured development of work packages helps maintain good jobsite labor productivity
- How to maintain good jobsite labor productivity through the structured development of work packages
- The benefits of construction quality control tools and techniques
- How volatility, uncertainty, complexity and ambiguity make managing petroleum project extremely challenging
- How to use a five-step process to identify and manage petroleum project risks
- When best to use qualitative and quantitative risk assessments
- For each phase of project development, the name the estimate produced, its use, and the methodology used to create it
- How to guide the development of the definitive cost estimate that needed to secure full funding for a petroleum project
- Describe what estimate assurance is and briefly describe the steps in the assurance process
- The difference between planning and scheduling
- The process for developing a critical path schedule and the purpose of each step
- How to use only validated and approved information to read create an informative, high-quality schedule
- Describe what a baseline schedule is, including who prepares it, when to prepare it, and how the PM can use it
- How to describe the different approaches used to measure project progress and give examples of their use

- The concept of earned value analysis including how it to determine schedule and cost variance
- How to estimate the final cost of a project given the project budget, earned value and actual costs to date
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Course Content

This course is comprised of the following skill modules (Approx. 2-4 Hours Each):

- Onshore Field Development Programs and Projects
- Project Governance
- Project Resources and Organization
- Scope Delivery
- Design Engineering Management
- Acquiring Goods and Services
- Construction Management
- Project Risk Management
- Cost Estimating for Facility Projects
- Scheduling
- Progress Measurement

Product Details

Categories: [Midstream](#)

Disciplines: [Process Facilities](#) [Project Management](#)

Levels: [Basic](#)

Product Type: [Course](#)

Formats Available: [On-Demand](#) [Virtual](#)

Instructors: [PetroSkills Specialist](#)

On-Demand Format

| Course | On-Demand (Available Immediately)

\$3,890.00
