

# Capital Project Excellence – National Oil Companies

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## Course Description

The objective of this course is to provide National Oil Companies (NOCs) a clear understanding of deliverables and requirements that, with the support of Project Management Consultants (PMCs), need to be completed during the development and execution phases of projects.

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## Audience

This program geared to NOCs' staff responsible for managing projects and PMCs working with the NOCs on those projects

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## Content

### The Link Between Project Outcomes and Project Drivers

Introduces briefly how practices drive capital effectiveness, measurement of project performance, methodology to quantify the effect of practices, predictability metrics, and competitiveness metrics.

### Implementing an Effective Project Work Process

Discusses the business stake in the gated work processes, and the deliverables for each stage.

### Team Effectiveness

Addresses the components of effective team and owner core competencies and effective integration of contractors into the project team.

### Front-End Loading

Presents Front-End Loading (FEL), the process of defining the project before detailed design work begins.

### Developing Cost and Schedule Estimates

Presents the components of a cost and schedule estimate as the project moves through the project work process to help project professionals understand uncertainty and risk in estimates.

### The Impact of an Effective Project Controls Process

Discusses the elements of the control plan including seven practices for effective control and practices for preventing problems in execution.

### Value Improving Practices

Defines Value Improving Practices (VIPs), explains how the proper use of VIPs drives project outcomes, and describes each VIP in detail. Also explains how to develop a VIPs implementation plan.

### Contracting Strategies

Focuses on the critical elements of contracting strategy and their implications. It teaches how to effectively implement a competitively bid contracting approach, including: selecting a contractor, strategy and risk transfer, using a managing contractor effectively, and practices for mitigating claims.

### Construction Safety

Addresses the role of the owner in construction safety and presents research into the practices that drive better safety performance.

### Risk Management

Presents the basics of project risk analysis and management while sharing different tools and techniques for identifying, quantifying, and mitigating risks.

### Implementing Improvements

Presents the key practices, policies, and procedures needed for identifying, shaping, and executing effective capital investments.

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## Benefits

The course provides participants with an understanding of the information they need to make the decision to take a project to the next phase of development and execution. Specifically, it provides: key elements of team effectiveness; drivers of successful completion of FEL phases and deliverables; contracting strategy and effective implementation; Value Improving Practices; tools and techniques for identifying and mitigating risks; practices in controlling projects; and research findings on how to improve construction safety.