

Best Practices for Mining Projects

New
Course!

This program integrates findings from IPA's extensive quantitative research that links project management practices to project outcomes. Research into the performance of minerals companies shows that the best performing organizations have costs 10 percent more competitive than other industry projects. These projects have comparable execution durations, indicating they are not trading schedule for cost. Practices presented in this program have been demonstrated to drive that superior performance.

This course is based on IPA's database of over 400 mining projects executed around the world. These projects range from smaller sustaining capital projects to multi-billion dollar new mine developments. This program provides participants with Best Practices and learnings targeted to improve cost, schedule, and quality of mining projects.

Key Benefits

- ▶ **LEARN** the practices to improve cost, schedule, operability and safety performance
- ▶ **EXPLORE** how to set and achieve predictable cost and schedule results
- ▶ **DISCOVER** risks for defining and executing minerals assets and risk mitigation approaches
- ▶ **UNDERSTAND** the asset development process
- ▶ **IDENTIFY** mining assets that best meet business needs
- ▶ **RECOGNIZE** the resourcing needs for minerals projects
- ▶ **IMPLEMENT** effective project controls

Course Format

This 2-day program shares practices demonstrated to improve both mine extraction projects and minerals processing facilities projects. The instruction method includes lectures supported with presentation slides, active class discussions, and case studies. All participants in the program will receive a training course notebook. The notebook will include a hard copy of the presentation. Additional material will be distributed during the training course. Tools and guidelines discussed in the course will be included in materials given to each participant.

Course Registration

The cost of this 2-day program is US\$1,500. To view additional registration details and learn about special discounts, please visit our website at www.IPAInstitute.com, or call 703-729-8300.

Certificates with the number of course hours will be distributed to attendees to attain PDUs and continuing education credits.

Target Audience

The program is intended for all involved in defining, planning, and executing minerals investments. Key activities in the front-end of the project where important business decisions are made involve cross-functional representation so learnings can be implemented by all who participate in the investment process. Participants benefit from the lessons derived from the thousands of projects in IPA's databases.

Course Content

The Business Stake

- Place of projects in the business supply chain, and the impact of project performance on business competitiveness
- Executing projects in the current environment

Mining Project Pathway to Success

- Pathway to Success for minerals asset development based on IPA's quantitative research
- The key elements include orebody definition, mine complexity, technology selection, scope definition, appraisal strategy, project definition for mine and facilities, degree of team integration, target setting, and project execution discipline.

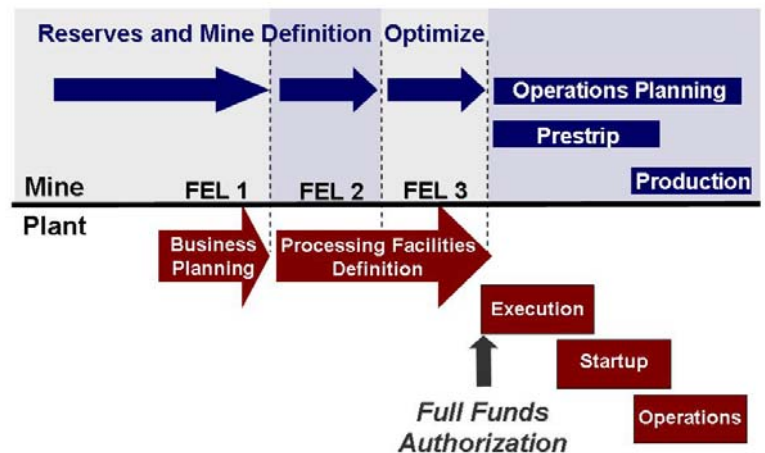
Team Effectiveness

- Theory of teams and their use on capital projects
- Components of an effective team and owner core competencies
- Effective integration of contractors into the project team

Mine Development FEL

- Review each element of the Mine FEL: Orebody and overburden definition, site factors, engineering status, and project execution planning
- Key deliverables for each of these elements at authorization
- Examples of problems that occur when definition is incomplete are discussed

FEL Requires an Integrated Asset Approach



Facilities Definition

- Components of FEL for facilities: site factors, engineering status, and project execution planning
- Explanation of the Best Practices for site definition, and why they are critical to project success
- Detail discussion of the specific engineering deliverables that should be complete prior to the start of production design
- Research linking project execution planning to project success.
- Description of a project execution plan and its critical components

Project Execution and Control

- The owner role in project execution and control
- Design, procurement, and construction management

Risk Management

- Basics of project risk analysis and management
- Different tools and techniques for identifying, quantifying, and mitigating risks
- Risks specific to large and complex projects, common to many mining and minerals projects are discussed

“Excellent project management advice and guidelines to achieve best practical results.”

- 2008 Course Attendee