

Course Prospectus:

- Course Description
- Course Index (topics)
- Representative Slides from the Course

A course in the management of projects according to the Project Management Institute's methodology.

Contact Bill@BlackBoxPartners.com for information on this course.

Version 2.0



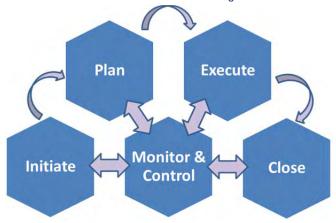


BlackBox Migrations, LLC

BlackBox Migrations, LLC, doing business as BlackBox Partners, is a small business that delivers a breadth of technical solutions. The firm is a Service-Disabled Veteran-Owned Small Business (SDVOSB) dedicated to providing training and consulting to governmental and commercial clients.

BlackBox offers solutions that fit practical business needs:

- Training / Course Development
- Technical Project Management
- Database Services & Data Warehousing



BlackBox Project Management Training

Organizations have a need keep skills in alignment with needed work processes. They must also develop their staff to work effectively with the people and processes that are essential to project success.

All training tasks require a strong model for understanding human interactions and development. BlackBox is a Registered Education Provider with the Project Management Institute (PMI®) and offers courses that are aligned with PMI methodology and processes. For people and communications classes BlackBox draws upon the research and paradigms of Myers-Briggs Type Indicator (MBTI®) in framing facilitated sessions and coaching relationships that leverage the natural strengths of the participants.

BlackBox offers a core set of courses in Project Management aligned with PMI® processes, techniques, and standards:

- Introduction to Project Management
- Advanced Risk Management
- Advanced Time & Cost

Training should be aligned with the work, processes, and templates of the host organization. BlackBox spends the time to meet students in their local industry context, using examples from the work of the participants.



Introduction to Project Management:

Relying on the PMI's *PMBOK Guide®* processes, the Introduction to Project Management course teaches both experienced and prospective project managers the PMI's standard language, tools, and techniques used by hundreds of thousands of project managers worldwide.

Organization of the Course:

The course is organized in order to follow the path of a normal project throughout its lifecycle, giving students real-world examples mixed with the established theories and practices for building a project plan and executing the work of a project:

Initiation

The tools and techniques of project initiation. With emphasis on the identification of stakeholders and the creation of a project charter.

Planning

The tools and techniques of project planning. With emphasis on estimating and creating the essential elements of a project plan building an understanding of Scope, Schedule, and Cost for the project. Additionally covers the other elements of the PMI's nine project management areas: Risk, Quality, Resources, Procurement, Communication, and Integration.

Executing

The tools and techniques of project execution. With emphasis on earned value management and change management.

Closing

The tools and techniques of project closing. With emphasis on gathering lessons learned and closing out the project properly.

The course includes lecture, individual exercises that teach the skills being taught, and group case studies that walk the student through the process of planning and executing a project.

For More Information Contact: Bill@BlackBoxPartners.com +1 (202) 288-6004





Session 1 Introduction

Personal Introduction

- Introducing You
- Why Project Management Education?
- Which Brings us to Me
- Where I have Lived
- States Where I Lived

Introduction to Project Management

- This Course
- Scope of the Course
- Objectives of the Course
- What Is Project Management?
- A Project
- Making Room for Project Management
- Other Constructs and How They Differ
- Rolling Stones as an example

Case Study 1: Programs and Projects

- The PMBOK® Guide
- Basic PMI® Metrics
- Venn Diagram of PM
- Why Project Management Education?
- PMI's 9 Project Knowledge Areas
- Definitions
- Key Artifacts of PM
- Processes
- Five Project Management Process Groups
- A Normal Project Lifecycle IPEC
- Example Cycle of a Seismic Project

Exercise: Your Project Lifecycles

- Why Project Management in Oil & Gas?
- Major Oil & Gas Challenges

Discussion: What Skills Do PMs Need?

- This Unit: Introductions
- Key Learning Points

Session 2

Project Initiation

- This Unit
- Unit Objectives
- PMBOK® Guide 3.3
 Initiating Process Group
- Processes for Funding Projects
- The Business Case
- Reasons for Projects
- Net Present Value
- Payback Period
- Benefit/Cost Ratio
- What the Project Manager Presents

Exercise: Which Project to Choose?

- Business Case in a "Gate System"
- Stakeholder Analysis
- Example of a Stakeholder Scenario
- Unacknowledged Stakeholders Sleeping Beauty
- Identify Stakeholders in the Org Chart
- Stakeholder Register

Case Study 2: Stakeholders

Session 3

- Separate Wants & Needs
- Objectives
- Requirements
- Requirements
- The Project Charter
- The Use of Project Charters
- Project Charter Document
- Where We Are Now

Discussion: Have All Your Projects Been Like this Unit Describes?

- This Unit: Initiating Outputs
- Key Learning Points

Project Planning

- This Unit
- Unit Objectives
- PMBOK® Guide 3.4 Planning Process Group
- The Constraints
- The Project Management Plan
- A Word on Baselines

Work Breakdown Structure

- Scope Management
- Deliverable
- Requirements Traceability Matrix
- Scope Processes Put Together
- Create the WBS

Case Study 3: Create a WBS

- Create WBS Dictionary
- Project Management Baselines

Session 4

General Estimating Concepts and Techniques

- Estimation is Iterative
- Definition of Estimates
- Estimating Basics
- PMI Funnel of Estimation
- Estimation on Global Projects
- Analogous Estimating
- Parametric Estimating
- Three-Point Estimates
- Three-Point Estimates PERT
- PERT Project Example

Exercise: PERT Estimation

• Estimation Components

Estimating Time

- Durations & Time
- Estimate Activity Durations Checklist
- Precedence Diagramming Method
- Network Diagramming
- Network Diagram, ES, EF, LS, LF, Slack & Critical Path
- Critical Path Method

Exercise: Network Diagram

Session 5

- The Four Relationships
- Four Relationships with Examples
- Network Diagram View in MS Project
- Develop Schedule
- Schedule Gantt Chart
- Schedule Milestone Chart
- Estimate Time Checklist
- Project Management Baselines

Case Study 4: Estimate Time



Session 6

Estimating Resources

- What are Resources?
- Documenting Resources
- Resource Leveling
- Resource Graph in MS Project
- Alternatives Analysis
- Estimate Resources Checklist

Estimating Costs

- Cost Terms
- Bottom-up Estimating
- Bottom-Up Estimating Process
- The Cumulative Cost Curve
- Determine Budget Outputs
- Estimate Costs Checklist
- Project Management Baselines
- Project Management Plan Status

Case Study 5: Estimate Resources and Costs

Session 7

Risk Management

- What the Word Risk Means
- Is He Looking at a Risk?
- Risk Changes Over Time
- PMBOK® Guide Six Risk Processes
- The Risk Register
- Strategies for Negative Risks or Threats
- Strategies for Positive Risks or Opportunities

Case Study 6: Identify and Qualitatively
Analyze Risks

Session 8

Quality Management

- Quality Overarching Themes
- Cost of Quality
- Control Charts
- Benchmarking

Case Study 7: Quality Testing Benchmarks

Session 9

Health, Safety, & Environment

- Health, Safety, Environment
- General Safety Rules
- Safety Protective Equipment
- Environmental Enforcement (US)

Completing the Binder

- Communication Methods
- Management Reports
- Information Distribution Methods
- The Communication Plan

Case Study 8: Communications Plan

Session 10

- Change Control Management
- Change Control Plan
- Configuration Management Plan

Contract Documentation

- Procurement
- Make-or-Buy Analysis
- Contract Types
- Proposal Evaluation Techniques
- What Goes in the Project Plan
- Project Management Plan Status
- Where We Are Now

Discussion: Planning and Time

- This Unit: Planning Outputs
- Key Learning Points



Session 11

Project Execution

- This Unit
- Unit Objectives
- PMBOK® Guide 3.5 Executing Process Group
- PMBOK® Guide 3.6 Monitoring & Controlling Process Group
- Definitions
- The Project Office
- The Project Manager's People Role
- Communication Preferences
- People Tricks
- Managing Project Execution
- Monitor & Controlling Project Work
- Variance Analysis
- Earned Value Management
- Forecasting the Future with EVM

Discussion: Incorporating EVM Exercise: Timmy's Doughnuts

Session 12

- Project Management Software
- What to Do When Variance Appears
- Schedule Compression
- Perform Change Control
- Risk Reassessment
- Risk Audits
- Watch for Risks
- Choose Simple Workarounds
- Fallback Positions
- Document and Report
- Project Communication
- Status Meetings
- Performance Reviews
- Reporting Systems
- Presentation Skills
- The Story Pick a Theme
- The Story Description
- Where We Are Now
- This Unit: Executing Outputs
- Key Learning Points



Session 13

Project Closing

- This Unit
- Unit Objectives
- PMBOK® Guide 3.7 Closing Process Group
- Closing a Project or Phase
- Signing Off on Deliverables
- Putting Resources Back in the System
- Closing Out with People
- Lessons Learned Meetings
- Closing Out Procurements
- Project Archives
- Where We Are Now
- This Unit: Closing Outputs
- Key Learning Points

Session 14

Course Closing/Review

- This Unit
- Unit Objectives
- PMI's 9 Project Management Knowledge Areas
- Five Project Management Process Groups
- Why Project Management in Oil & Gas?
- Stakeholder Register
- Requirements Traceability Matrix
- Scope Processes Put Together
- PMI Funnel of Estimation
- Three-Point Estimates PERT
- Network Diagramming
- Project Management Baselines
- PMBOK® Guide Six Risk Processes
- The Communication Plan
- Change Control Management
- The Project Manager's People Role
- Earned Value Management
- Presentation Skills
- Closing a Project or Phase
- Where We Are Now

Session 15 Exam



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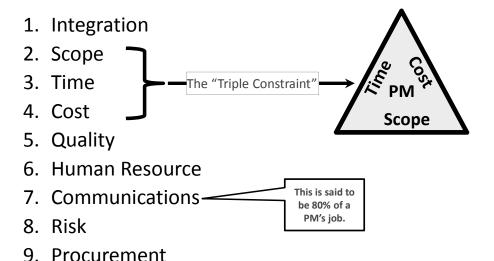
Why Project Management Education?

- Individual Goals
 - Career Path & Salaries
 - To make projects predictable enough for project managers to take vacations or be promoted to other positions and projects
- Corporate Goals
 - Project management is a key competency of managers
 - Increasingly finding its way into MBA programs
 - Companies are requiring project management education
- Competition
 - Customers requesting certified project managers
 - The oil industry is increasingly requiring a structured, repeatable, process-oriented approach to its projects

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PMI's 9 Project Knowledge Areas

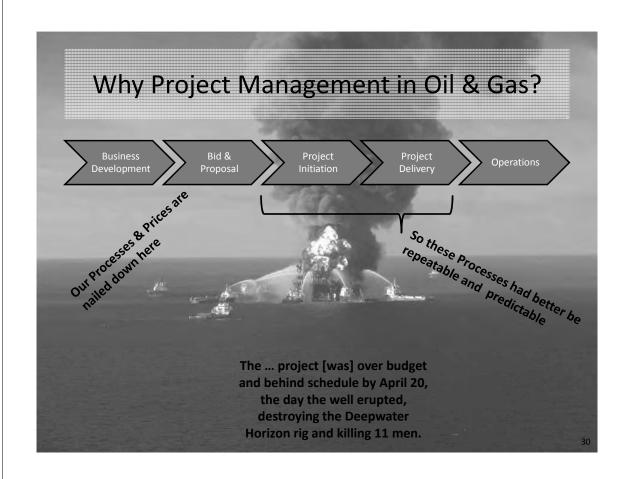


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Exercise: Your Project Lifecycles

- What lifecycle has your company used in the projects in which you have worked?
- Prepare a PowerPoint slide showing the lifecycle





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Requirements Traceability Matrix

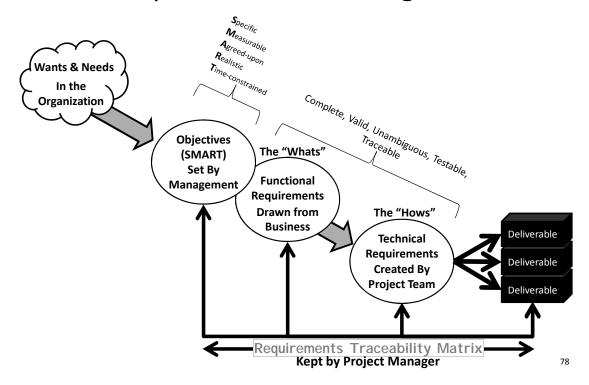
- A document, spreadsheet, or electronic tool that is created to track each requirement from its source to it acceptance by the customer to the project.
- Ensures that no requirement is forgotten

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Scope Processes Put Together



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Bottom-Up Estimating Process

- Define the work packages
 - Estimate the cost of each work package
 - Estimate the duration of each work package
- Schedule each work package
 - Gantt charts
 - Network methods program evaluation and review technique (PERT), critical path method (CPM), and so on
- Spread the costs of the work package between start and finish dates
 - Use earned value method that most closely approximates the spend pattern

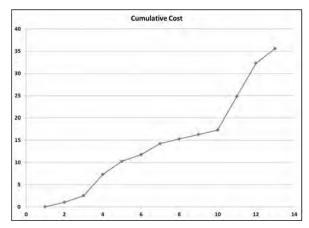
Description	Drilling	Completion
Rig	1,484,722	142,188
Well Service Unit	•	186,550
Mob/Demob	635,863	56,875
Wellsite Supervision	301,665	-
Contract Services	338,202	
Wellsite Accomodations	131,609	711
Transportation	102,375	13,650
Fuel/Water/Power	310,287	8,617
Communications	20,782	1,621
Location	152,994	2,275
Environmental	176,540	569
Equipment Rental	1,127,242	910
Bits	278,699	ı
Drilling/Compl Fluids	284,375	11,375
Cementing	160,689	•
Directional	450,450	-
Tubular/Wellhead Services	124,272	48,003
Logging/Formation Eval/Testing	134,339	17,063
Stimulation/Sand Control	-	1,292,780
Administrative	247,406	16,494
Contingencies	646,251	179,968
Total Intangibles	7,108,760	1,979,646

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The Cumulative Cost Curve

- After the project costs have been associated with the timing of the tasks a chart of the accumulated costs can be created showing the pattern of spending.
- The Cumulative Cost Curve is a time-phased budget for the project





Project Management Case Studies

William H. Dannenmaier CEO BlackBox Partners, LLC

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Case Study 1: Programs and Projects

Bolivar Corporation (BC) maintains and operates a set of jack-up rigs in the Gulf of Mexico. Based on employee suggestions and complaints, upper management has decided that it wants to improve the overall functioning of cranes on their rigs. You are a project manager working for BC and have been asked to improve the status of the corporation's cranes (BC has several types of cranes on their rigs). This will involve checking on the maintenance records, maintenance contracts, status of the cranes in operation, and repair of the cranes. Management believes this will take about 24 months or so. The rigs are located throughout the Gulf.

Questions:

In this scenario:

- What are the operations of BC?
- What would you consider in this case to be a:
 - Program
 - Project
 - Subproject



Jack-up Rig in the Gulf