

Project Management Fundamentals for Engineers (2 Days)

Course Description

This 2-day course will introduce engineers and engineers-in-training to structured project management practices. Participants of this course will gain a detailed understanding of a step-by-step process to ensure project success. Priority will be given to focusing on consistent terminology commonly used in projects. Special attention will be dedicated to improving project communications and stakeholder engagement.

Course Learning Outcomes

Upon the completion of the course, you will be able to:

- Understand the difference between projects and operations
- Define the stages of the project life cycle
- Understand how organizations should select projects
- Define the purpose of the project charter
- Understand how to identify, categorize and manage stakeholder expectations
- Define the triple constraint
- Understand the purpose of the project management plan
- Understand how to identify and manage, risk, communications, human resources
- Understand the process of developing a project budget and schedule
- Understand the importance of capturing and storing lesson learned

Duration

2 days (14 hours)

Detailed Learning Outcomes

Part 1: Learning Outcomes:

Introduction of participants and outline of the course content.

Part 2: Project Management Fundamentals

- Define a Project
- Define Progressive Elaboration
- Understand the purpose of a Project Management Office
- Understand the impact of the Triple Constraint on project quality
- Understand project life cycle

Part 3: Project Initiation

- Understand how projects are chosen
- Identify stakeholders and develop project charter

Part 4: Planning & Execution

- Understand the components of a project management plan
- Understand the basic process of identifying scope
- Understand the process of developing a schedule and allocating resources
- Understand human resources
- Develop communications plan
- Understand risk management
- Understand the basics of quality in project management
- Understand how to develop a budget
- Understand the change process

Part 5: Closing

- Describe the generally accepted steps for closing a project
- Document how lessons learned can be captured and retrieved
- Develop a Final Project Report