

PROJECT MANAGEMENT ESSENTIALS FOR ENGINEERS

COURSE OVERVIEW

Your technical competence, along with your management skills, will determine how far you can go in your career. This course will help you observe the three stages of a project, acquire knowledge in nine project management areas, and apply management techniques to the unique challenges in your own projects.

BENEFITS OF ATTENDING

- Improve engineering and service discipline work experience
- Use execution plans to integrate the work
- Effectively employ cost and schedule control tools

COURSE OUTCOMES

- Understanding the fundamentals of engineering project management
- Key project management skills needed to maximise project performance
- Planning, organizing, implementing, and controlling engineering projects
- Managing engineering projects risks
- Engineering project scheduling and progress measurement techniques

COURSE OBJECTIVE

- Apply a professional, systematic approach to managing engineering projects
- Define project scope, establish realistic objectives, and accurately specify project deliverables
- Produce realistic project plans and identify the schedule critical path
- Effectively manage project risks
- Establish essential project control methods and procedures
- Understand how to apply proven project estimating and progress measurements techniques
- Understand PMI's specific methods, processes, and expectations for managing project risks

COURSE OUTLINE

This course takes you through the different existing renewable energy resources and then focuses on the commercially viable existing renewable energy technologies

1. Engineering Project Fundamentals

Key project terms and definitions
The engineering project life cycle
Engineering project complexity factors
Understanding project environment & context
Defining engineering project scope
Key financial concepts

2. Engineering Project Planning & Organising

Identify objectives & prioritising goals
Engineering project planning methods
Developing work & cost breakdown structures
Project management roles & responsibilities
Project estimating techniques

Project scheduling methods

3. Performance & Progress Measurement

Measuring projects for success

Project management success factors

Project monitoring & reporting methods

Key performance indicators

Performance measurement (earned value management)

The time-cost trade-off

4. Engineering Project Leadership

Project interface management

Team building & the team development cycle

Communication, delegation, and motivation skills

Running effective project meetings

Managing stakeholder expectations

Successfully closing engineering projects

WHO SHOULD ATTEND

- Technical Assistants
- Procurement Managers and Asset Managers
- Cost Estimators & Project Planners
- Project Engineers & Discipline Engineers
- Project Managers & Contract Managers
- Quality Assurance Managers