



## Engineering Operations, Maintenance & Change

Designed primarily for all engineering managers or those engineers looking to take the plunge into operations, the course will equip students in learning how to define the scope of a project, apply project planning concepts and tools, delineate appropriate scheduling techniques, assess project risk through financial risk assessment, use techniques like FEM, Stat Modeling, Monte Carlo Simulation, Transform Methods, obtain customer feedback, use root cause analysis techniques.

### Content

Project Management Techniques

Scheduling Techniques

Computer Hardware and software requirements

Strategies for maintaining customer service satisfaction

TQC

Manufacturability, Cycle Time Analysis

Maintenance and Repair Oversight

Operations Systems Analysis

### Learning

Define scope of a project

Apply Project Planning Concepts and Tools

Delineate Appropriate Scheduling Techniques and Develop Budget Requirements

Assess Project Risk through Financial Risk Assessment

Use Simulation such as software or Virtual Techniques

Adapt to change

Apply Industry Standards and Regulatory Standards for Quality (ISO, ANSI)

Apply Manufacturing Techniques (Machining, Fabrication Methods, FEA)

Schedule Equipment Preventive Maintenance