

## Failure Modes and Effects Analysis - 2 Days

Course Code: SIG202

This course provides the context for using FMEA to reduce the risk of costly mistakes before launching a new product or process or modifying an existing one. Identify potential modes of failure and indicate their relationship to product design or manufacturing process, along with their effects. All steps of FMEA are covered including how to best implement each throughout the organization.

### Learning Objectives

- Describe the FMEA Process
- Define types of FMEA's
- Know the important benefits of FMEA
- Be familiar with components of FMEA
- Understand process requirements
- Select cross-functional teams
- Employ process analysis
- Examine why failures occur
- Apply the traditional design approach
- Interpret reliability and quality history
- Explain the boundary diagram for design

### Topics & Content

#### The FMEA Approach

- FMEA steps
- Design verification planning and testing
- Design control

#### Risk Priorities

- Relationship to the risk register
- Criticality measures
- Risk priority calculations
- Improvement actions

### Course Information

#### Duration

2 days

#### Audience

Anyone responsible for evaluating Six Sigma projects.

#### Accreditations

PMI: 14 PDUs

SHRM 14 PDCs

OPM: 14 CLPs

OPM Competency: Problem Solving



***“I especially liked gaining insight into the mental disciplines that an engineer applies to design processes.”***