APPLICATION OF FAILURE MODES AND EFFECTS ANALYSIS (FMEA)

COMFORI SDN BHD

Objectives:

- Improve product/process reliability and quality.
- Conduct early identification and elimination of potential product/process failure modes.
- Prioritize product/process deficiencies.
- Capture engineering/organization knowledge.
- Effectively perform problem prevention.
- Document risk and actions take to reduce risk.
- Provide focus for improved testing and development.
- Minimizes late changed and associated cost.

Overview:

Organizations are striving to be competitive with products that have high quality levels that delight customers. In this effort, Quality Control Plans (QCPs) are essentially created to ensure the design and manufacturing processes are within specifications and controls. Comprehensive QCPs from Design and Process Failure Mode & Effects Analysis (FMEA). FMEA is considered a useful risk analysis tool to identify and prioritize potential failures of a product or its related processes and could guide organizations to great improvements to its product reliability and system diagnosis. This program course aims to demonstrate how effective the FMEA principles are deployed to assist related departments in developing an effective control plan.

Modules:

Module 1: Types of FMEA's

Module 2: Three Phases of FMEA

Module 3: FMEA using the Military Standard (Mil-std 1629a) Format

Module 4: Design Criteria

Module 5: Developing a Design FMEA

Module 6: Developing a Process FMEA

Module 7: Failure Scenarios

Module 8: Traditional Failure Modes

Module 9: Life Cycle Failure Scenarios

Module 10: Function-structure Mapping

Module 11: Concept of Occurrence-Severity-Detection (OSD)

Module 12: Tabulation of Risk Priority Number (RPN) and Costs of Failures

Module 13: What is Control Plan?

Module 14: Developing a Control Plan based on FMEA

Module 15: Control Methods and Reaction Plans