

**Course Title: PRE-PRODUCTION  
(THEORY)**

**Course Code: MMF 129 (T)**

**Course Background / Summary:**

The Pre-Production Prototype step will result in knowledge about the manufacturability of the product, the manufacturing processes, maintainability and reliability, material, and component lists, plans for field support, installation and production costs, safety, and environmental factors, time schedules, and regulatory requirements.

**Course Objectives:**

- Identify product drawing, tools, equipment, and manufacturing capability.
- Identify the sampling process
- Analyze production capability and capacity
- Design the flexible production layout

**Target Audience:**

- Management Level/ Supervisory Level/ Supporting Staffs

**Course Duration: 3 Days**

**Course Contents**

**1.0 Introduction of the Pre-Production**

**6.0 Critical Path Measurement (CPM)**

**2.0 Product Interpretation, Capability, and Capacity**

**7.0 Product Evaluation Sequence Technique (PERT)**

**3.0 Sampling Process**

**8.0 Transportation Model**

**4.0 Design for Manufacturing (DFM)**

**9.0 Linear Programming**

**5.0 Design for Assembly (DFA)**

**10.0 Facility Planning**