

Course Title: BASIC INDUSTRIAL & MANUFACTURING ENGINEERING (Theory)

Course Code: MMF 134 (T)

Course Background / Summary:

This course is designed for engineers & technicians who need to expand their knowledge of technical aspects of their profession; Industrial Engineering provides instruction on technical fundamentals, production layout, and production ergonomics.

Course Objectives:

- Understanding the manufacturing and industrial engineering activity
- Understanding the technique of manufacturing performance measurement
- Solving the time study problem
- Designing the production layout
- Understanding the importance of ergonomics in production

Target Audience:

- Participants that are interested in product design and development.
- Engineers and technicians involved in product design.
- Teaching staff (including vocational and technical teachers) who teach and are interested in product design and development

Course Duration: 3 Days

Course Contents

1.0 Theory of Constraint (Availability and Utilization)

6.0 Process Flow

2.0 Manufacturing Layout

7.0 Ergonomics & Safety

3.0 Batch Production & Continuous Flow

8.0 Overall Equipment Efficiency (OEE)

4.0 Time Study

9.0 Continuous Improvement

5.0 FIFO / LIFO