

**Course Title: PLASTIC INJECTION  
 OPERATION**
**Course Code: MMF 137**
**Course Background / Summary:**

Plastic injection molding, commonly referred to as injection molding, is a manufacturing process used to mass fabricate plastic parts. Plastic injection molding is a manufacturing process used to create consistent batches of the same product both fast and efficiently. It is commonly used in mass production and prototyping. In addition, it is one of the most reliable manufacturing techniques to produce plastic products.

**Course Objectives:**

- Fully understand the whole manufacturing process
- Learn how design affects mold & production costs
- Evaluate existing designs for flaws & improvements
- Identify cost reduction areas
- Improve your fault-finding skills

**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 Introduction to Plastic Injection  
 Molding**
**4.0 Introduction to Plastic Materials**
**2.0 Advantages and Disadvantages of  
 Plastic Injection Molding**
**5.0 Injection Moulds**
**3.0 The Plastic Injection Molding Process  
 and Machinery**
**6.0 Physical Properties and Terminology**