

Course Title: MOULD FABRICATION

Course Code: MMF 116

Course Background / Summary:

This program aims to educate on the principles and the fundamentals of the plastic injection moulding process. This training will allow participants to enhance their knowledge in mould fabrication. Upon completion, participants will be equipped with the correct techniques to fabricate moulds and the injection process.

Course Objectives:

- How moulds are constructed; the elements and terminology used
- How mould design can influence product quality
- The fabrication of mould cooling; gate and runner design etc
- How to identify faults relating to mould design/manufacture
- How to produce parts and components for mould assembly.

Target Audience:

- Machines Operators & Machines Suppliers
- Teaching staff (including vocational & technical teachers)
- Industrial workers

Course Duration: 3 Days

Course Contents

1.0 Machining

- Terminology
- Machining and fabrication of mould parts and components
- Cavities and cores
- Inserts including a runner and gate, ejector systems, methods of locating and aligning each half, mould venting

2.0 Assembly

- Assembly of various part
- Polishing the insert and troubleshooting
- Injection Molding principles
- Techniques of ejection mould
- Injection moulding operation