## COURSE TITLE: MOULD MAINTENANCE AND INJECTION MOULDING MACHINE

### COURSE OVERVIEW

This course is designed to provide participants with the practical knowledge in plastic injection machine operation and mould maintenance. The concept of maintenance of moulds is introduced to ensure that life of the mould is prolonged with the correct operating procedures and maintenance techniques. Machine components and functions are explained to relate to the injection process cycle. Parameters in injection moulding are paramount information for participants in order to control the process and produce good parts. Issues on plastic part common defects and troubleshooting guides are addressed to further enhance participants’ knowledge. Step-by-step procedures are practised to give participants an understanding of the correct working procedures for mould setting and testing. This will help workers to produce good parts and increase productivity.

### COURSE OBJECTIVES

Upon completion of this course, participants will be able to:

- Explain why injection moulds must be constantly maintained
- Describe the various factors that affect the condition of an injection mould
- Describe the injection moulding storage, handling and transporting
- Identify the safety factors and equipment used
- Familiarize and operate the injection moulding machine and mould testing

### THE UNIQUENESS OF THIS COURSE

- The training approach is different to attract class participation during lectures.
- Practical applications on machine operation, maintenance and mould testing.
- Assistance from experienced trainers in the field of plastics and processing industry.

### WHO SHOULD ATTEND

This course is designed for those related to the plastics and processing industry. Target Group: Tooling engineers, Assistant engineers, Line supervisors, Quality Control personnel, and Maintenance technicians, Mould setter.

### KEY TOPICS

- Plastic Injection Mould Safety
- Maintenance of Injection Moulds
- Injection Moulding Machine
- Injection Moulding Parameters
- Optimizing the Moulding Parameters
- Injection Moulding Defects
- Auxiliary Equipment
- The Role of the Operators
- Injection Moulding Machine Operation; operation elements, mould mounting, setting clamp and injection units, producing parts and mould change

### METHODOLOGY

Consists of theoretical contents and practical sessions. Lesson delivery via lectures, demonstrations and group activities.

### COURSE DURATION

4 Days / 30 Hours

### PRE-REQUISITE

Minimum - SPM/SPMV

### CERTIFICATION

Certificate of attendance will be issued to those who successfully complete the course.