

## **COURSE TITLE : FUNDAMENTALS OF METAL STAMPING**

### **COURSE OVERVIEW**

This course introduces tool and die technology as applied in manufacturing. Participants are exposed to different metal stamping processes, concepts and applications of dies. Technical aspects in die making are taught particularly the theories of cutting sheet metal, cutting clearance, locating the shank or centre of cutting, blank development and force calculations. The theory of cutting and forming together with calculations will be applied in the die making process.

### **COURSE OBJECTIVES**

At the completion of this course, participants will be able to :

- Explain to the basic terminological and concept of tool & die.
- Apply the theory of sheet metal cutting.
- Explain the basic concepts of piercing and blanking process.
- Recognize the types of piercing and blanking die used in industries.
- Familiarize with the equipment and design standards.

### **THE UNIQUENESS OF THIS COURSE**

- In-depth coverage of fundamental knowledge.
- Comprehensive example provided for better understanding
- Assistance by experienced trainers throughout the courses

### **WHO SHOULD ATTEND**

This course is designed for those who are related to the sheet metal industry.

### **TARGET GROUP**

Product designers, Design engineers, Tooling engineers, Supervisors and technicians.

### **KEY TOPICS**

- Introduction to Tool and Die Making
- Principles of Blanking and Piercing dies
- Reaction of the stock Material
- Cutting clearance
- Cutting and Stripping Force
- Shear
- Location of the Shank
- Stock Material Utilization and Strip Layout
- Die Presses

### **METHODOLOGY**

Consist of theory contents, lessons delivery is via lectures, discussions,

### **COURSE DURATION**

3 Days

### **PRE-REQUISITE**

Basic Tool & Die knowledge and, minimum have completed SPM/SPMV

### **CERTIFICATION**

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

Minimum participants: 6