

BENDING OPERATION & BENDING DIES



COURSE OVERVIEW

This module emphasizes on the theory and application of fundamental of bending operation and bending dies. Participants are taught of the basic techniques and skills in the fabrication process from conception of bending operation of metal part through start of assembly according to the proven progressive bending die set. This course will clearly illustrate the proper design limit or alternative and describe the penalties that can occur in the manufacturing process include calculation parameters involves in die designing bending data parameters such as estimated blank size, blank development including calculation of bending dies.

COURSE OBJECTIVES

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

- Understand the behavior of the grain structure when subjected to stress during the bending operation.
- To have the knowledge on minimum bending radius to be bent without failure, necking and fracture.
- Reducing methods against springback in V & U bending die operation.
- Be able to identify the problem, causes in bending operation and able to soft the problems.
- To have the knowledge to calculate blank development of sheet under bending.

THE UNIQUENESS OF THIS COURSE

- In-depth coverage of fundamental knowledge.
- Practical exercise on servicing the actual industrial die and press machine.
- Assistance from experienced trainers throughout the courses.

WHO SHOULD ATTEND

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

Target Group: Product Designers, Design Engineers, Tooling Engineers, Supervisors and Technicians.

KEY TOPICS

- Bending theory.
- Types and characteristic of bending
- Type structure and characteristic of bending dies.
- Blank development.
- Bending force.
- Problem/defects in bending operation and their remedies.
- Die construction.

METHODOLOGY

Consist of theory contents, lessons delivery is via lectures and demonstration.

COURSE DURATION

2 Days.

PRE-REQUISITE

Fundamental Press Tool Technology.

CERTIFICATION

Certificate of attendance will be issued to those who fulfill 80% of attendance.

For further details, please contact:

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