INVENTOR NESTING

Sheet Metal & Nesting Essentials

Course Duration: **8** Hours

Overview:

This course will cover the essentials of Inventor's sheet metal tools, advanced techniques for optimizing material usage through nesting, and best practices for producing precise and cost-effective sheet metal components.

Learning Objectives:

After completing this session, you will be able to:

- Learn to create, modify, and manage sheet metal parts and assemblies using Autodesk Inventor's specialized tools, ensuring accurate and manufacturable designs.
- Understand and apply nesting techniques to optimize material usage, reduce waste, and improve efficiency in the manufacturing process.
- Gain insights into industry best practices for sheet metal design and nesting, enabling you to produce high-quality components while minimizing costs and production time.

Prerequisites:

It is recommended to have a basic knowledge of 3D CAD, be familiar with the latest versions of Microsoft Windows operating systems

Acquisition:

Trainees will get an industry recognized Certificate of Completion.

Notes:

The Course topics and duration may be modified by the instructor based upon the knowledge and skill level of the trainees.

Topics Covered:

Inventor Sheet Metal Fundamentals

- Creating Sheet Metal Rules
- Sheet Metal Basic Features
- Adding Secondary Features
- Fold and Unfold techniques
- Creating Flat Pattern
- Creating Drawing (DXF, DWG)

Introduction to Nesting in Inventor

- Overview of Nesting Concepts and Benefits

  Understanding Nesting Environment and Interface

Preparing Models for Nesting

- Importing and Preparing Parts for Nesting
- Setting Up Sheet Sizes and Materials
- Understanding Part and Sheet Constraints

Creating Nest Studies

- Defining Nesting Rules and Parameters
- Creating and Managing Nesting Studies
- Optimizing Nesting Layouts for Material Efficiency

Analyzing and Editing Nest Results

- Using Automatic vs. Manual Nesting
- Strategies for Maximizing Material Usage
- Handling Complex Shapes and Irregular Parts

Final Project and Review

For inquiries, please call or email:

8899-7853 loc 2158/2154
09399734872
inquiry@mscorp.com.ph

maximum SOLUTIONS CORPORATION

AUTODESK
Solutions Provider
Gold Partner
Authorized Training Center

Maximum Engineering Solutions Hub