



# Aditi Consultancy Services

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## Mechanical Design Engineer Job Orientation Course - 5 Days

### Topics

Overview of Engineering Product Design & Development  
Fundamental Drawing Rules  
Drawing Standards; Drawing Sheet Layout; Orthographic Projection  
General Principles of Dimensioning  
Engineering Tolerancing Principles  
Millimeter and inch dimensioning and tolerancing conventions  
ISO System of Limits and Fits; Selection of fits for specific applications  
Representation of Surface Roughness in technical drawings  
Types of Welded Joints; Weld Symbols; Elements of a Welding Symbol  
Sheet Metal Design Practices  
Manufacturing Process and Selection of Materials  
Heat Treatment Processes  
Surface Plating and Coating Processes  
Introduction to Geometrical Dimensioning & Tolerancing (GD&T)  
GD&T Symbology and Terminology; Datum Referencing  
GD&T - Definitions, Meaning and Representation in the Drawings  
Engineering Measurement Principles and Methods  
Calibration and Uncertainty of Measurement  
Fundamentals of Jigs & Fixture Design principles  
Exercises; Practical Demonstrations; Questions & Answers  
Evaluation Test