

CADT 106M – CAD Graphics I (Course Description)

This course is a continuation of CADT 104M - introduction to the components utilized in Computer Aided Design (CAD) technology. The primary focus will be on learning advanced concepts of the current CAD program and how it applies to mechanical design principles and applications. Concentrated efforts will be made to stress learning CAD commands and the importance of accuracy and clarity towards basic drawing solutions. Prerequisites: CADT 104M – minimum grade of C- or instructor permission

CADT 106M – CAD Graphics II (AutoCAD 8 week course outcomes)

- I. Templates for Borders and Title Blocks
 - a. Mechanical inch (A,B,C, size)
 - b. Mechanical metric (A4, A3, A2)
- II. Multi and Pictorial view Drawings
 - a. Orthographic View Definition
 - b. Multi view Construction
 - c. Auxiliary Views Definition
 - d. Auxiliary View Construction
 - e. Pictorial View Definition
 - f. Pictorial View Construction
- III. Tables
 - a. Table Styles
 - b. Inserting Tables
 - c. Editing Tables
 - d. Calculating Values in Tables
- IV. Polyline and Spline Editing
 - a. Using the PEDIT Tool
 - b. Polyline Grip Tools
 - c. Creating Polyline Boundary
 - d. Using SPLINEEDIT Tool
 - e. Spline Grip Tools
- V. Dimension and Tolerancing
 - a. Dimension Standards and Styles
 - b. Linear and Angular Dimensions
 - c. Dimensioning Features and Alternate Practices
 - d. Dimensioning with Tolerances
 - e. Editing dimensions
- VI. Additional AutoCAD Applications
 - a. Parametric Drafting
 - b. Section Views and Graphic Patterns
 - c. Standard Blocks
 - d. Block Attributes
 - e. Dynamic Blocks
 - f. Additional Dynamic Block Tools
- VII. Using Layouts
 - a. Layout Setup
 - b. Plotting Layouts
 - c. Annotative Objects
 - d. External References

Sheet Sets