AUTODESK AUTOCAD 2019

1. Getting Started with AutoCAD
    a. Starting the Software
    b. User Interface
    c. Working with Commands
    d. Cartesian Workspace
    e. Opening an Existing Drawing File
    f. Viewing Your Drawing
    g. Saving Your Work
2. Basic Drawing and Editing Commands

    a. Drawing Lines
    b. Erasing Objects
    c. Drawing Vertical and Horizontal Lines
    d. Drawing Rectangles
    e. Drawing Circles
    f. Undo and Redo Actions

3. Projects: Creating a Simple Drawing

    a. Create a Simple Drawing
    b. Create Simple Shapes

4. Drawing Precision in AutoCAD

    a. Using Running Object Snaps
    b. Using Object Snap Overrides
    c. Object Snap Tracking

5. Making Changes in Your Drawing

    a. Selecting Objects for Editing
    b. Moving Objects
    c. Copying Objects
    d. Rotating Objects

    e. Scaling Objects
    f. Mirroring Objects
    g. Editing with Grips

6. Projects: Making Your Drawings More Precise

    a. Schematic Project: Electronics Diagram
    b. Architectural Project: Landscape
    c. Mechanical Project: Using Polar and Tracking
    d. Mechanical Project: Surge Protector
    e. Mechanical Project: Satellite

7. Organizing Your Drawing with Layers

    a. Creating New Drawings With Template
    b. What are Layers?
    c. Layer States
    d. Changing an Object's Layer

8. Advanced Object Types

    a. Drawing Arcs
    b. Drawing Polylines
    c. Editing Polylines
    d. Drawing Polygons
    e. Drawing Ellipses

9. Analyzing Model and Object Properties

    a. Working with Object Properties
    b. Measuring Objects

10. Projects: Drawing Organization and Information

    a. Architectural Project
    b. Mechanical Project
    c. Civil Project

11. Advanced Editing Commands

    a. Trimming and Extending Objects

b. Stretching Objects
c. Creating Fillets and Chamfers
d. Offsetting Objects
e. Creating Arrays of Objects

12. Blocks

a. What are Blocks?
b. Inserting Blocks
c. Inserting Blocks using the Tool Palettes
d. Working with Dynamic Blocks
e. Inserting Blocks using the DesignCenter

13. Projects: Creating More Complex Objects

a. Mechanical Project 1: Plate
b. Mechanical Project 2: Gasket
c. Mechanical Project 3: Plate
d. Mechanical Project 4: Rocker Arm
e. Architectural Project 1: Floor Plan
f. Architectural Project 2: Floor Plan
g. Civil Project: Parking Lot

14. Setting Up a Layout

a. Working in Layouts
b. Creating Layouts
c. Creating Layout Viewports
d. Named Views
e. Guidelines for Layouts

15. Printing Your Drawing

a. Printing Concepts
b. Printing Layouts
c. Print and Plot Settings

16. Projects: Preparing to Print

a. Mechanical Project

b. Architectural Project

17. Text

    a. Working with Annotations
    b. Adding Text in a Drawing
    c. Modifying Multiline Text
    d. Formatting Multiline Text
    e. Adding Notes with Leaders to Your Drawing
    f. Creating Tables

18. Hatching

    a. Hatching
    b. Editing Hatches

19. Adding Dimensions

    a. Dimensioning Concepts
    b. Adding Linear Dimensions
    c. Adding Radial and Angular Dimensions3
    d. Editing Dimensions

20. Projects: Annotating Your Drawing

    a. Mechanical Project
    b. Architectural Project 1
    c. Architectural Project 2
    d. Civil Project

21. Working Effectively with AutoCAD

    a. Creating a Custom Workspace
    b. Using the Keyboard Effectively
    c. Object Creation, Selection, and Visibility
    d. Working in Multiple Drawings
    e. Copying and Pasting Between Drawings
    f. Using Grips Effectively
    g. Additional Layer Tools

22. Accurate Positioning

    a. Coordinate Entry
    b. Locating Points with Tracking
    c. Construction Lines
    d. Placing Reference Points

23. Projects: Productivity Tools

    a. Schematic Project: Purifier Unit
    b. Mechanical Project: 2 Views
    c. Architectural/Civil Project: Formal Garden
    d. Mechanical Project: Cover Plate
    e. Architectural Project: Addition
    f. Mechanical Project: Block
    g. Mechanical Project: Plate

24. Parametric Drawing

    a. Working with Constraints
    b. Geometric Constraints
    c. Dimensional Constraints

25. Working with Blocks

    a. Creating Blocks
    b. Editing Blocks
    c. Removing Unused Elements
    d. Adding Blocks to Tool Palettes
    e. Modifying Tool Properties in Tool Palettes

26. Projects: Creating and Organizing Blocks

    a. Mechanical Project: Control Panel
    b. Architectural Project: Furniture Layout
    c. Civil Project: Utility Layout

27. Creating Templates

    a. Why Use Templates?

b. Controlling Units Display
c. Creating New Layers
d. Adding Standard Layouts to Templates
e. Saving Templates

28. Working with Layouts

a. Creating and Using Named Views
b. Advanced Viewport Options
c. Layer Overrides in Viewports
d. Annotative Scale Features

29. Annotation Styles

a. Creating Text Styles
b. Creating Dimension Styles
c. Creating Multileader Styles

30. Projects: Drawing Setup and Utilities

a. Interiors Project
b. Mechanical/Schematic Project
c. Civil/Map Project
d. Mechanical Project: Dimension Styles

31. External References

a. Attaching External References
b. Modifying External References
c. Xref Specific Information

32. Projects: Drawing

a. D-sized Title Block (36x24)
b. Mechanical Project: Drill Press Base
c. Architectural Project: Office Tower
d. P&ID Project: Oil Lubrication System
e. Civil Project: Warehouse Site