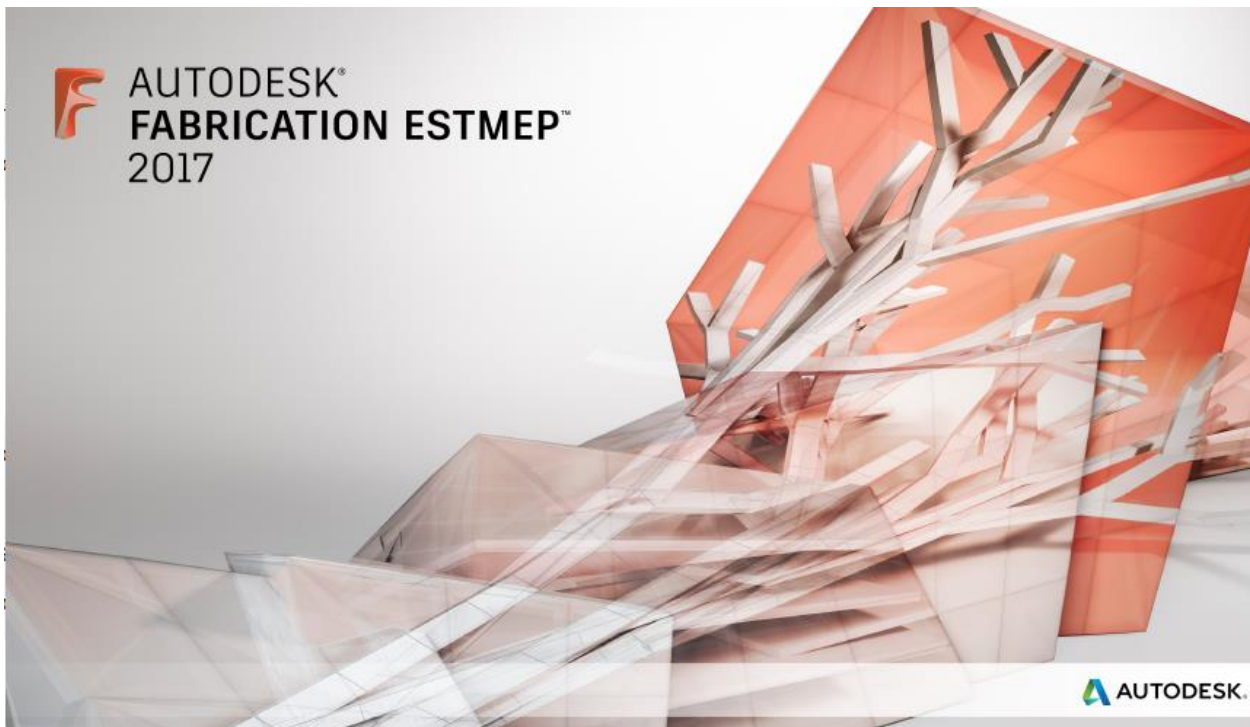


Course Outline for

Autodesk Fabrication ESTmep Fundamentals





The topics covered will vary slightly with each class based upon the pace of the students. As an Autodesk Authorized Training Center, we adhere to the strict quality control procedures established by Autodesk to consistently deliver the highest caliber learning experience possible.

Day 1

1. Introduction

- a. Introduction to the Autodesk Fabrication portfolio
 - i. Similarities between CADmep, ESTmep and CAMduct

2. Deployment

- a. Standalone Installation
 - i. Configuration Packs
 - ii. File structure
- b. Network Installation
 - i. Shared Configuration
 - ii. User Permissions

3. User Interface

- a. User Interface Overview
- b. Pull-Down Menus
- c. The Utility Bar
- d. Service Pallet
 - i. Sections
- e. Center View Pane and Toolbars
- f. Right-click Shortcut Menus

4. Sections (Levels)

- a. Explanation of sections
- b. Creation of sections

5. Drawing with the Attacher

- a. Coordinate system
- b. Navigation in a 3D environment
- c. Understanding Snaps
- d. Attacher On, Off, Rotate, Rotate around Attacher
- e. Takeoff as cut-in
- f. Item edit
 - i. Multiple Item Properties
 - ii. Carry over settings

Day 2

1. Drawing with design line

- a. Anatomy of a Design Line
 - i. Lines
 - ii. Nodes
 - iii. Source point
- b. Design Line annotation settings
- c. Design Line editing
 - i. Delete
 - ii. Stretch w/Grips
 - iii. Node manipulation
 - iv. Stretch Command
 - v. Add a Node
- d. Line Editor
 - i. Change Constraints
 - ii. Change Elevation
 - iii. Add Fall
 - iv. Ignore Hangers
- e. Node Editor
 - i. Change Button Code
 - ii. Set Axis Rotation
 - iii. Set Fixed Height
- f. Design Line game 2 exercise
- g. Build basic model with Design Line
- h. Adding slope, insulation, and sections to Design Line
- i. Revdesign

Day 3

1. Revit to ESTmep

- a. Exporting Revit Elements
- b. Importing into ESTmep

2. Value Engineering

- a. Swap Out Items
- b. Change Specifications and/or Services
- c. Re-Price

3. Total Station

- a. Export points
- b. Import points
- c. View point files

Day 4

1. Costing

- a. Overview of Costing
- b. Understanding How Costing Works
 - i. Material Cost
 - ii. Fabrication Cost
 - iii. Fabrication Labor Cost
 - iv. Install Labor Cost
 - v. Value vs. Price List
 - vi. Updating Price List
 - vii. Fixed Cost (overheads)
 - viii. Markups and Discounts



Day 5

1. Drawing Annotation

- a. Basic annotation, toolbar overview with tag placement
- b. Custom annotation, trade Specific annotation and Placement
- c. Annotation editing (on, off, rotate, move, resize)

2. Reporting

- a. Item Reports and Item Report Builder
- b. Printing Item Reports
- c. WorkSheets
- d. CSV export
- e. Ancillary Reports

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