

Autodesk® Fabrication CADmep™ - Fundamentals

Brief Synopsis of Class Contents:

The Fabrication CADmep training course helps new users get up to speed on the core functions and features of Fabrication CADmep software. The class will teach new users to create a basic 3D model and prepare field drawings and procurement documents. Students will learn to create files and documents needed for prefabrication of ductwork and piping. Students will also learn basic CADmep customization and how to create their own custom Fabrication Items.

Learning Objectives:

- Understanding the CADmep workspace and user interface
 - Using basic modeling, editing, and viewing tools
 - Creating shop drawing with annotation
 - Creating spool drawings and exporting to CAMduct and ESTmep
 - Customizing your CADmep configuration
- Learning Objective

Courseware:

Fabrication CADmep Fundamentals

Number of Days:

5 Half Day Sessions

Continuing Education Hours:

18 hours

Who Should Attend:

New Users of Autodesk Fabrication CADmep

Prerequisites:

AutoCAD fundamentals knowledge and experience.

System and Software Requirements:

<http://www.asti.com/LiveLab-Learning-and-Training/LiveLab-System-Requirements>

FAQs and Cancellation Policy:

<http://www.asti.com/LiveLab-Learning-and-Training/LiveLab-FAQS>

Class Outline and Topics:

Introduction

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

Deployment

- Standalone Installation
 - Loading the ARX
 - Configuration Packs
 - File Structure
- Network Installation
 - Shared Configuration
 - User Permissions

User Interface

- Service Pallet
- Services and Sections
- Toolbars
 - CADmep Toolbar
 - Attacher Utilities
 - Database Utilities
 - Fill Utilities
 - Text Utilities
 - Sections
 - Search Tools
 - View Utilities
 - Design Tools
 - Spool Tools
 - Takeoff-Folders Tools
- Context menus
 - Right Click
 - Shift Right Click

Sections (Levels)

- Explanation of sections
- Creation of sections

Drawing with the Attacher

- Attacher On, Off, Rotate, Rotate around Attacher
- Fix Relative
- Takeoff as cut-in
- Drop into Fall
- Fill between 2 ends
- Fill with flex
- Polyline Fill
- Item edit
 - Match Properties
 - Multiple Item Properties
 - Carry over settings
 - Filter selection

Collision Detection

- Runtime collision checking
- Manual collision checking
 - (CHECK)
 - (DETECT)
- Collision detection settings

Drawing with Design Line

- Anatomy of a Design Line
- Design Line annotation settings
- Design Line editing
- Line Editor
- Node Editor
- Design Line game 1 exercise

- Design Line game 2 exercise
- Build basic model with Design Line
- Adding slope, insulation, and sections to Design Line

Spooling

- Spooling from AutoCAD
 - CAD spooling options
 - Single and batch spooling

Drawing Annotation

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

Reporting

- Addreport
- Item reports
- WorkSheets
- CSV export

Shop Drawing Creation

- Drawing template setup
- Job info
- Creating Sectional Views
 - Where am I standing?
 - How far am I looking?
 - Restore last view
 - Restore plan view

Total Station

- Export points
- Import points

- View point files

Output to CAMduct

- Status Outputs
- Renumber
- CREATECAM command

Revit/AutoCAD MEP convert

- Revit export of Design Line Elements
- Revit export of Graphic Elements
- Import to CADmep (processrun)
- Export from CADmep to Revit
- Overview of Fabrication in Revit

CADmep Customization

- Edit Configuration
- CADmep Settings
- Annotation Customization and Styles
 - AutoCAD DIMSTYLES
 - AutoCAD TEXTSTYLES
 - Database -> Takeoff -> CAD Settings
 - Level Blocks
- Creating and using Profiles
- Service Setup
 - Make job specific services
 - Detail level
- Hanger Specifications
 - Copy, edit, and apply
- Building Sub-Assemblies
- Item Creation
 - Convert3dModel
 - Makepat
 - Revit Convert