Autodesk Factory Design Suite
Learning Essentials

Course Length: 4 days

The Autodesk Factory Design Suite Learning Essentials course instructs users in the best practices of developing a factory layout consisting of architectural elements and manufacturing assets. The course is an introduction to the basic practices and principles for each of the applications contained in the Autodesk Factory Design Suite. The Autodesk Factory Design Suite consists of the following four Applications:

- AutoCAD Architecture
- Autodesk Inventor
- The Autodesk Factory Design Utilities
- Autodesk Navisworks

Specific instruction is given to each of the four applications as a factory facility layout is designed from the ground up. This course is designed for new or novice users to develop a general understanding of the factory layout process used by the Autodesk Factory Design Suite. It is not designed to deliver complete training in any of the core applications, but to instruct users in the applicable commands generally used in factory layout design.

For the current course schedule and to register for this course:
Web: redstack.com.au
Phone: 1300 667 263
Prerequisites:
As an introductory course, Autodesk Factory Suite Learning Essentials, does not assume prior knowledge of any 3D modeling or CAD software.
Students do need to be experienced with the Windows operating system and a background in drafting of 3D parts is recommended.
A familiarity with basic AutoCAD commands is assumed.

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AutoCAD 3D Drawing and Modeling

Chapter 1: Autodesk Factory Design Suite
  • Core Products
  • AutoCAD Architecture
  • Inventor Factory Design Utilities
  • Navisworks

Chapter 2: AutoCAD Architecture Basics
  • Understanding the Concept
  • Ribbon Overview
  • Application Menu
  • Tools and Tools Palettes
  • Content Browser

Chapter 3: Creating the Shell

Chapter 4: Creating Interior Features
Chapter 5: Autodesk Inventor Getting Started
- Autodesk User Interface
- Geometric Constraints
- Dimension Sketches

Chapter 6: Basic Sketching Techniques
- Creating 2D Sketches
- Intermediate Sketching
- Dimensioning Sketches

Chapter 7: Basic Shape Design
- Creating Basic Sketched Features
- Intermediate Sketching
- Editing Parametric Parts Using Parameters
- Create Work Features

Chapter 8: Detailed Shape Design
- Creating Chamfers and Fillets
- Creating Holes and Threads
- Patterning and Mirroring Features
Chapter 9: Creating Layouts and Placing Assets
- Factory User Interface – Getting Started
- Placing Factory Assets
- Inserting a Model
- Reposition Components
- Aligning Components
- Modify Asset Properties

Chapter 10: Factory Asset Publishing
- Asset Creation
- Defining Key Parameters
- Publishing Assets

Chapter 11: Workflow and Best Practices
- Using Project Files for Factory Design
- Factory Templates
- Supporting Directories
- Workflow – Divide and Conquer
- Best Practices
Chapter 12: Basic View Creation

- Drawing Creation Environment
- Base and Projected Views
- Section Views
- Detail Views
- Crop Views
- Dimensions, Annotation, and Parts Lists
- 2D Drawings and AutoCAD Interoperability

Chapter 13: Navisworks Getting Started

- User interface
- Workflow
- Publishing an NWD File

Chapter 14: Visualization/Digital Mockup

- Navigation
- Viewpoints
- Animations
- Digital Mockup
- Factory layout Tools
- Item Tools
- Measuring Tools
- Cross Section Tools
- TimeLiner
Chapter 15: Interference/Collaboration

- Clash Detection
- Selection Tree and Selecting Objects
- Point Cloud Data Clashing
- Collaboration
- Redline Tools
- Export Data
Cancellation Policy

The following cancellation policy shall apply to all training and consulting engagements including customised training solutions:

Redstack reserves the right to reschedule or cancel the date, time and location of its class at any time. In the event that a Training Class is cancelled by Redstack, Customer is entitled to a full refund. Redstack shall not be responsible for any other loss incurred by Customer as a result of a cancellation or reschedule.

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For more information, contact us on 1300 667 263.