



What is the synopsis for a Geomagic Design X Essentials Training Course

Geomagic Design X Essentials Class

Course ID: DXE-TR-CL

Level: Fundamentals

Duration:

- In-person instructor-led classroom session, 3-days
- Virtual Classroom, 3-days
- Onsite Training – 3 days 100% tailored to your application

Overview

This instructor-led course covers the usage and concepts of **Geomagic Design X Essentials**. The user will learn how to interact with the application, edit point cloud data, generate and edit STL models and generate surface and solid bodies for downstream applications.

Who should attend?

This course is designed for new users to **Geomagic Design X Essentials** who are responsible for creating STL and/or surface/solid models of scanned parts. Class can be tailored for existing users as a refresher or new training

What will I learn?

- Processing of scan data, point cloud and mesh
- Editing of mesh data
- Create water-tight mesh models
- Generating NURBS Surface models
- Create parametric models using standard CAD tools
- Export data for downstream applications

Course Agenda

- Geomagic Design X Essentials Overview
 - Introduction to Geomagic Design X Essentials
 - Concepts and Workflows
- Learning the User Interface
 - User Interface
 - Selection and Navigation
 - Ribbons and Dialogs
- Point Fundamentals
 - Basic Point Cloud Editing
 - Data Registration and Merging
- Mesh Fundamentals
 - Basic Mesh Editing
- Region Group Editing and Utilization
- Aligning Scan Data to World
- Exact Surfacing Fundamentals
 - Auto Surface
 - Manual Surface Layout
- Parametric Surface and Solid Modeling
 - Basic Sketching Concepts
 - Modeling Tools; Surfaces and Solids
 - Extrude, Revolve, Loft and Sweep Commands
- Exporting of Data
 - Exporting IGES, STEP and STL data
 - Guide to LiveTransfer
- Accuracy Analyzer
- Open Discussion
 - Time available to discuss company specific workflows and techniques
- Course basics are subject to change based on trainee needs

Prerequisites

In this course the user will be working intensively with **Geomagic Design X Essentials**. To successfully understand the content and complete the activities, the user must already be able to:

- Understand and use Windows conventions
- Understand basic scanning techniques
- Understand basic CAD sketching concept

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