



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

### **Geomagic Design X Class**

Course ID: DX-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**. 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** 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 Overview
  - Introduction to Geomagic Design X
  - 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**. 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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