Cx [Geomagic Control X](#)

What is the synopsis for the Geomagic Control X Training Course

Geomagic Control X Class
Course ID: CT-TR-CL
Level: Fundamentals
Duration

- In-person instructor-led classroom session, 2-days
- Virtual Classroom, 2-days
- Onsite Training, 2-days – tailored to your application

Overview

This instructor-led course covers the usage and concepts of **Geomagic Control X**. The user will learn the benefits of computer-aided inspection and how to succeed in developing automated inspection processes. The user will learn how

to align scan data with CAD models, compare the scan data to the CAD models, perform additional 2D and 3D analysis, generate reports and automate this inspection process for repeatability.

Who should attend?

This course is designed for new users to **Geomagic Control X** who are responsible for creating inspection processes and reports.

What will I learn?

- Prepare the scan data for the inspection process
- Perform alignment between Reference Data and Measured Data
- Evaluate scan data using 3D analysis tools
- Perform 2D Analysis
- Generate an inspection report
- Reapply the initial inspection process on additional scan data

Course Agenda

- Geomagic Control X Overview
    - Introduction to Geomagic Control X
    - Concepts and Workflows
- Learn the User Interface
    - User Interface
    - Selection and Navigation
    - Ribbons and Dialogs
- Data Processing
    - Supported File Types
    - Processing Scan data, Point Cloud and Mesh
- Alignment and Registration
- Features Creation
- Alignment Methods
- Data Correspondence
- 2D and 3D Analysis
- Generating Reports
    - Report Formats

- - Customizations of Report Definitions
    - Automated Inspections
    - Auto Reporting
- Open Discussion
  - Time available to discuss company specific workflows and techniques

Prerequisites

In this course the user will be working intensively with **Geomagic Control 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 part inspection concepts

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