Introduction to SpatialAnalyzer

Description: An introductory course that provides an overview of SpatialAnalyzer software as a tool for performing common measurement, analysis, and reporting tasks in today's modern portable metrology industry. It is the first course for exploring common metrology techniques such as measurement, alignment, real-time build, inspection, geometric analysis, and reporting.

Duration: 3 Days

Prerequisites: Rudimentary knowledge of geometry and basic portable metrology principles

Featured Topics

Fundamentals

- Discuss SA's architecture and nomenclature
- Explore the workspace
- File organization

Instrument Interface

- Adding New Instrument
- Tracker Instrument Toolbar
- Arm Instrument Toolbar
- Total Station Instrument Toolbar

Instrument Alignments

- Measure Nominal Points
- Drift Checks
- Best-Fit
- Quick Align to CAD

Feature Inspection

- New Features Control
- Using Existing Points
- Using Probing Device
- Fitting Geometry
- Geometry Relationships
- Using Existing Geometry

Point Clouds

- Cloud based Inspections
- Extracting Geometry
- Cloud Construction

Working with CAD

- Import models
- Reverse Surfaces
- Create objects from surfaces
- Compare to measured data

Basic Reporting

- Queries and Vector Groups
- Dimensioning
- Callouts
- Report Generation
- Exporting Report

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