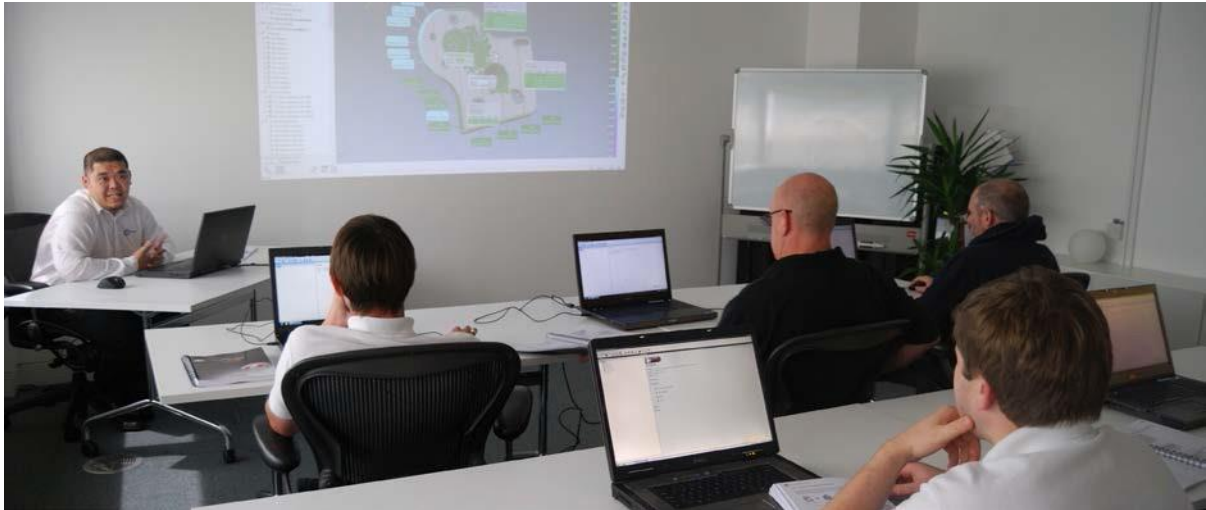


PolyWorks | Inspector™ Probing Training Course



Introduction to PolyWorks

- Workspace Manager
- Basic Options
- File and Project Structures
- IMKey License Manager

Introduction to IMInspect Probing

- User Interface
- Basic Options
- Visual Layout

Basic Probing Workflow

- Importing References Models
- Basic Surface Points Alignments
- Probing Features
- Probing Point Clouds
- Creating Report Tables
- Taking Snapshot
- Create Formatted Report

Feature Creation

- Creating Nominals from CAD or Drawings
- Probing Parameters and Measuring by Probing

Geometry Controls

- Dimensional Controls
- Geometric Dimensioning & Tolerancing (GD&T) Controls
- Editing Annotations
- Templates

Feature Based Alignments and Alignment History

- Planes, Axes, Center Point (3-2-1)
- Center Points
- Perpendicular Planes
- Datum Reference Frame Alignment
- Using Alignment Groups and reverting back to previous alignments

Reference Targets Alignment

- Creating Surface and Feature Reference Targets

Probing Point Clouds

- Probing modes and “Probing and Compare”

Best-Fit Alignment and Data Colour Maps

- Displaying the Deviations between the Data and Reference Objects or Feature Primitives
- Customizing the Colour map and Enhanced Colouring
- Applying Tolerances to CAD Models for Pass & Fail Colour Maps

Multiple Device Positions

- Probe targets, move device, then re-probe targets to lock back in

Probing Cross-Sections

- Creating Standard or Offset Cross-Sections

Comparison Points and Virtual Surfaces

- Probing Comparison Points on Surfaces, Cross-Sections, Polylines, Trimmed Edges and Hemmed Edges
- Enabling and using Virtual Surfaces

Basic Measurements and Feature Based Measurements

- Picking points to measure between
- Measuring Distances or Angles between 2 Features
- Measuring 2D Cross-Section Features

Probing Flush & Gap Gauges

- Measured between 2 models by Probing
- Alignment using Flush & Gap Gauges

Probing Profile Gauges

- Probing one or two Radii measurements

Coordinate Systems

- Creating and managing Coordinate Systems

Reporting

- Taking and editing Snapshots
- Creating Formatted Reports and using Report Editor

Automatic Updates

- Enabling/Disabling and its functionality
- Editing Measured Data Points

Multiple Piece Inspection

- Multiple inspections in one project
- Statistical Process Control (SPC)

Offline Simulation & Sequencer

- How to create complete inspection programs offline with device or parts
- How to rearrange the sequence or measurements and further programming of inspection projects

PolyWorks | Viewer

- Free Project Viewer

Additional Airfoil Gauge Module**RPS 6 Point Nest Alignment**

- Used to align Airfoil Blades

Airfoil Gauges

- Creating Airfoil gauges and Best Fit and Cross sections