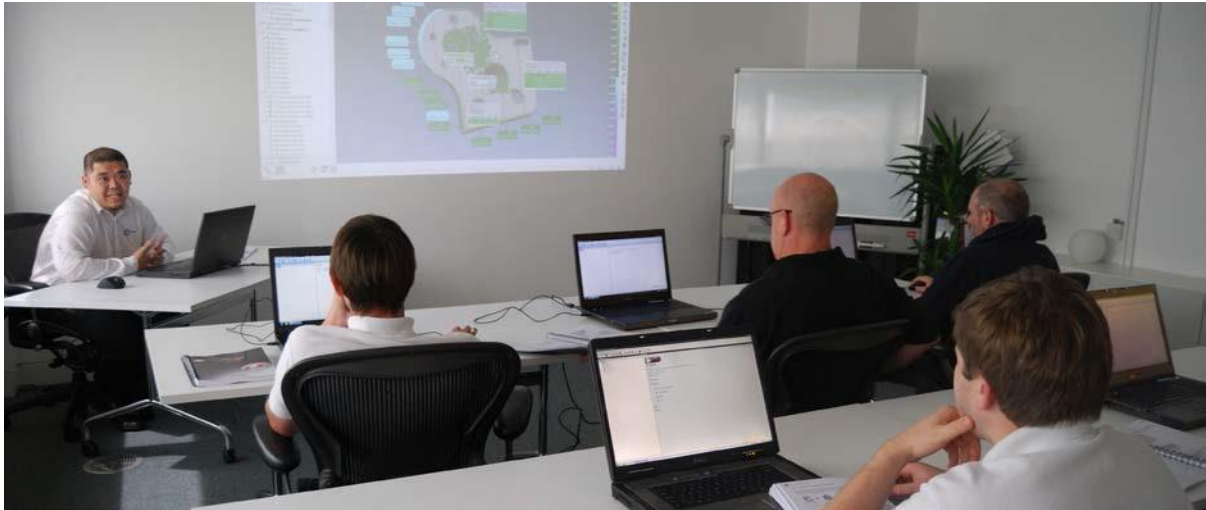


PolyWorks | Inspector™ Premium Training Course



Introduction to PolyWorks

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

Introduction to IMInspect

- User Interface
- Basic Options
- Visual Layout

Real-Time Quality Meshing

- Scanning Parameters
- Quality Metrics
- Unifying models using Targets and Best Fit

Basic Workflow

- Importing References & Data
- Basic Alignments
- Basic Colour Map Comparison
- Creating Report Tables
- Taking Snapshot
- Create Formatted Report

Units

- Importing objects with different units

Scaling

- Scaling models using “Units Conversion”

CAD Based-Clean-Up

- Quick removal of noise and over scans

Tolerances

- Applying tolerances to CAD surfaces

Feature Creation

- Creating Nominals from CAD or Polygonal models
- Creating Measured from Polygonal or Point Cloud models

Feature Extraction

- Setting up feature properties to extract the measured from the nominals

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

Data Colour Maps and Point Annotations

- Displaying the Deviation between the Data and Reference Objects, Feature Primitives or other Data
- Customizing the Colour map and Enhanced Colouring
- Picking points on model for error annotation readings

Cross-Sections

- Creating Standard, Offset and Section View Cross-Sections

Comparison Points and Virtual Surfaces

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

Basic Measurements and Feature Based Measurements

- Picking on 3D or 2D points to measure between
- Measuring distances or angles between 2 features
- Measuring 2D Cross-Section Features

3D and 2D Calipers

- Creating Standard and Cross-Section Calipers
- Single Axis or Offset Axes (depth gauge)

Flush & Gap Gauges

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

Profile Gauges

- One or Two radii measurements

Volume Measurements

- Measuring Data or Plane or Data to Data

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)

Surface Data SPC and creating Deviation Models

- Deviation Colour Map of Multiple Data Models
- Creating Deviation Models as Point Clouds or Polygon Models

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