

PC-DMIS CMM System Training Agenda

- ❖ *This training course is intended for students with experience in quality control and with a basic knowledge of computers, blueprint reading and geometric dimensioning and tolerancing.*
- ❖ *This syllabus refers to pages from the Hexagon Metrology Training Workbook.*
- ❖ *Based on the acknowledgment and Instructor's recommendation, Prymetech will issue TRAINING CERTIFICATES confirming satisfactory class completion.*

Section 1

Hardware Overview

- Turning on CMM
- Loading PC-DMIS
- Joystick

Software Overview

- Network Discussion (if applicable)
- Menus Overview
 - File
 - Edit
 - View
 - Insert
 - Operation
 - Window
 - Help
- Setup Options (F5)

Probes

- Probe Changers (if applicable)
- Probe Qualification

REFERENCE 1: Probe Changers Pgs 50-58

REFERENCE 2: Lab 2 Probe Qualification Pgs 98-104

Section 2

Measuring Features Manually

- Vectors
- Measuring a Point (manual)
- Measuring a Line (manual)
- Measuring a Plane (manual)
- Measuring 3D Features (manual)

REFERENCE 3: Vectors Pgs 43-48

Manual Alignments

- Alignment Summary
- Importing CAD Models (if applicable)
 - Changing Display Colors
 - Moving Coordinate System
- Aligning CAD Models (if applicable)
- Manual vs DCC Mode
- Report Command Comments
- Constructing a Manual Alignment

REFERENCE 4: Alignment Structure Pg 63



155 Prairie Lake Rd, Suite A
East Dundee, IL 60118
847-428-7122
847-213-9938 fax
www.prymetech.com

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Section 3

Automatic Feature Recognition

- Measuring a Point
- Measuring a Line
- Measuring a Plane
- Measuring 3D Features

Routine Creation

- Fixturing/Stabilizing Part
- Saving Program / Auto Save / Recalling Program
- DCC Mode
- Example Program with Demo Block
- Executing Program
 - Mark / Mark All / Clear Marked

Constructing & Tolerancing Features

- When to Construct Features Discussion
- Construction Techniques
 - Circles from point and/or other circles
 - Lines from point, circles, or other lines
 - Intersection points from lines
 - Midpoints
- Tolerancing Results

Section 4

Output Options

- Manipulation of Results
 - Printing Results
 - Saving Results to File
- Third Party Programs Discussion
 - Stats Option
 - Excel Output Options

Application Specific

- Fixturing Options/Suggestions for Customer Parts
- Creating Practice Routines on Customer Parts

