

MITUTOYO ASIA PACIFIC **TRAINING INSTITUTE**

To Train and Educate Today for the Needs of Tomorrow



Metrology Training Course

Course Type	Duration
Calibration of Small Tools <ul style="list-style-type: none"> Teaches the correct method to calibrate caliper, micrometer, dial test indicators, dial gauge and height gauge 	2 Days
Basic Geometric Dimensioning & Tolerancing <ul style="list-style-type: none"> Introduction What are datum, features, tolerance, and modifiers 	1 Day

Vision Product Software Training Course

Course Type	Duration
QSPAK	2 Days
QVPAK	3 Days

QSPAK Course Content

Day 1

- Machine Control, light and stage motion
- Focusing
- Co-ordinate system alignment
- Edge detection tools
- Feature measurement I

Day 2

- Measurement with co-ordinate input
- Create tolerance
- Creating and executing a part program
- Feature measurement II

QVPAK Course Content

Day 1

- Setting up for measurement
- Moving control system
- Setting stage option
- Focusing, edge detection, drawing tools
- Type of co-ordinate system, alignment and measurement

Day 2

- Part program editor and file management
- Measurements between features
- Compute of distance and angle
- Using nominal, tolerance and datum fit

Day 3

- Align a PCS with rotation values, point offset
- QVNavigator window construction and operation page
- QVGraphics window configuration and view window
- Working with point buffers
- Step and repeat loop in part program



CMM Product Software Training Course

Course Type	Duration
MCOSMOS GEOPAK-WIN Manual	3 Days
MCOSMOS GEOPAK-WIN CNC	4 Days



MCOSMOS GEOPAK-WIN Course Content

Day 1

- Basic Maintenance of CMM
- Introduction to GEOPAK-WIN
- Layout of Main Windows
- Program directory

Day 2

- Introduction to Learn Mode
- Probe Data Management
- Pattern for Alignment
- Element Commands
- Types of Calculation

Day 3

- Define Coordinate System by steps
- Types of Construction
- Compute of Distance and Angle
- Types of Coordinate System
- Element Commands and Tolerance
- Output of Data

Day 4 (Only applicable to MCOSMOS GEOPAK-WIN CNC)

- CNC Parameter
- Automatic Element Commands
- Manual/ CNC Part Program

Form Product Software Training Course

Course Type	Duration
ROUNDPAK	2 Days
<u>FORMTRACEPAK</u>	
• SURFTEST	1 Day
• CONTRACER	2 Days
• CONTRACER CNC	3 Days

FORMTRACEPAK Course Content

Day 1 & 2

- Introduction to machine
- Operating the measuring instrument
- Calibration of styli
- Customizing the FORMTRACEPAK operating conditions
- Establishing the co-ordinate system
(Only applicable to CONTRACER)
- Executing calculation
- Part program creation
- Creating and saving measured data
- Printing the measurement result
- Printing and editing the page layout

Day 3

- Performing step and repeat part program
- Performing step and repeat with Y-axis (optional)



ROUNDPAK Course Content

Day 1

- Introduction to machine
- Calibration of styli
- Performing centering and levelling on workpiece
- Simple measurement
- Understanding of screen and printer outputs

Day 2

- Part programming
- Deleting data
- Partial rotations measurement
- Layout results screen



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We offer various metrology training courses, ranging from the Fundamentals of Precision Measurement to Co-ordinate Measuring Machine software. The courses are led by our industrial experienced, highly skilled trainers. Course contents are based on years of experience in offering solutions, advice and educational support to the industries in Dimensional Metrology Field.

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