Gage Calibration Questionnaire

The Mitutoyo America “Hands-On” Gage Calibration course focuses on dimensional calibration procedures. Students will have the opportunity to complete calibrations to develop their skills. The course will begin with common dimensional calibrations (see below), and then will allow individual students the freedom to cover topics of interest. Not all of the procedures shown below can be covered in depth, within the time frame of the course.

All students are asked to review the table below and check which calibration methods are of interest to them. We can cover a lot of material within the course but please only indicate those which you really need to learn.

Company Name:	Student Name(s):
Course Dates:	Number of students:

Check	Item to be Calibrated	Calibration Method
☒	Micrometers – outside	Comparison to gage blocks
☒	Calipers – vernier, dial, digital	Use of caliper checker or gage blocks
☒	Dial and test indicators	Indicator tester
☒	Digital indicators	Comparison to gage blocks
☒	Height gages	Comparison to gage blocks
☒	Length standards (e.g. micrometer standards and step gages)	Mechanical comparison
☒	Plug and pin gages	Laser scanning micrometer
☒	Radius/angle gages	Optical comparator
☐	Gage blocks	Mechanical comparison
☐	Ring, plug, and pin gages and spheres	1-D comparator or CMM
☐	Micrometer heads	1-D comparator
☐	Thread measuring wires	1-D comparator
☐	Thickness gages	1-D comparator
☐	Sine bars	1-D comparator
☐	Line scales	Vision CMM
☐	Squares	Comparison to master square or CMM
☐	Roundness of spheres, hemispheres, rings, and plugs	Form measuring instrument
☐	Straightness of straightedges	Form measuring instrument
☐	Cylindrical squares	Form measuring instrument
☐	Optical flats	Optical comparison to optical flat
☐	Surface finish specimens	Surface finish instrument
☐	Micrometers – inside, depth	Comparison to gage blocks
☐	Linear gages	Comparison to gage blocks
☐	Bore gages	Comparison to ring gages
☐	Precision levels, Protractor	Sine bar and gage blocks

Please return this form via fax to 630-978-6471
or email to: mim@mitutoyo.com