



Training Courses, Pricing & Descriptions

AVAILABLE TRAINING CLASSES (Held at Nikon Metrology, Inc. (NMI))

<u>Course Name</u>	<u>Training Level</u>	<u>Course Length</u>
CMM COURSES		
Automeasure	Basic	20 hours
#CMM Manager Basic	Basic	16 hours
#CMM Manager Intermediate	Advanced	16 hours
##CMM Manager iNexiv	Basic Basic	20 hours
#CMM Manager w/PH20		24 hours
CMM Manager Manual or Articulating ARM	Manual	8 Hours

LASER SCANNING COURSES

Focus Scan	Basic	16 hours
Focus Inspection	Basic	16 hours

AVAILABLE TRAINING CLASSES (ON-SITE)

<u>Course Name</u>	<u>Training Level</u>	<u>Course Length</u>
CMM COURSES		
Automeasure	Basic	20 hours (or more)
CMM Manager Basic	Basic	16 hours (or more)
CMM Manager Intermediate	Advanced	16 hours (or more)
CMM Manager iNexiv/Vision	Basic	20 hours (or more)
CMM Manager w/PH20	Basic	24 hours

LASER SCANNING COURSES

Focus Scan	Basic	16 hours (or more)
Focus Inspect	Basic	16 hours (or more)



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TRAINING COST

<u>Location</u>	<u>Class Type</u>	<u>Price</u>
NMI (Brighton, MI)	All 16-20 hour courses	\$1,000 per Student
NMI (Brighton, MI)	8 hour (**Manual CMM)	\$1,250 up to 4 Students
NMI (Lewis Center, OH)	All 16-20 hour courses	\$1,000 per Student
NMI (Lewis Center, OH)	All 24 hour courses	\$1,500 per Student
Customer Site	16 Hour Training Class	\$2,500**
Customer Site	20 Hour Training Class	\$3,125**
Customer Site	24 Hour Training Class	\$3,750**
Customer Site	General Support / Training	\$1,250 per day**

Maximum of 4 students for on-site classes
 (* Plus travel and living related expenses)
 (** Plus travel time @ \$95/hr. and travel / living related expenses)
 ***Manual CMM or Articulating ARM

TRAINING CREDITS

One (1) Training Credit is equal to one (1) Student per Class. Training credits may only be used at a Nikon Metrology facility (only Brighton, Michigan OR Lewis Center, Ohio currently).

Training for advanced courses can be purchased at any time.

NOTES:

#CMM-Manager Basic (with PH20) and Intermediate classes are held at the Columbus, OH office:
 631 Bear Run Lane, Lewis Center, OH 43035

##CMM-Manager iNexiv classes are held at the Brighton office:
 12701 Grand River Road, Brighton, MI 48116

24 hour classes typically start Tuesday at 1 pm depending on scheduling. For 16 hour and 20 hour classes, please refer to the training schedule or call Nikon Metrology for start times. For onsite training courses that are 32 hours, engineers will travel Monday morning and arrive at the customer as soon as travel permits. They will leave Friday midday to return home.

If customers would like to send a minimum of 4 people to our facility, we will consider holding a class that is typically held onsite only. This must be paid training. The cost would be \$5,600 for the week of training.



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COURSE DESCRIPTIONS

Automeasure	Students are introduced to the Graphical User Interface of the Automeasure software, which is used on optical/vision equipment. This class is geared for the beginner programmer/operator. The students will learn the fundamentals of using Automeasure to inspect parts and create programs. Basic part alignments, measurement, reporting, use of lighting and focus will be covered.. Students should be familiar with computers and able to read and understand engineering drawings and GD & T callouts.
CMM Manager Basic	Students are introduced to the Graphical User Interface of the CMM Manager software. This class is geared for the beginner to intermediate CMM operator and programmer. The students will learn the fundamentals of using CMM Manager to inspect parts and create programs. The student will learn probe qualifications, basic part alignments, measurement and reporting commands. Students should be familiar with computers and able to read and understand engineering drawings and GD & T callouts.
CMM Manager Intermediate	Students are introduced to the more advanced functions and routines available inside the CMM Manager software. Topics covered include: path creation, cad manipulation, advanced alignments, offline programming and simulation, advanced feature measurement, reporting, etc. This course is ideal for students who desire to utilize the full potential of the software.
CMM Manager iNexiv	Students are introduced to using the CMM Manager software on the iNexiv systems. This class is geared for the beginner operator and programmer. The students will learn the fundamentals of using CMM Manager on an iNexiv system to inspect parts and create programs. The student will learn basic part alignments, measurement and reporting commands, and how to use focus and lighting to achieve the best results. Students should be familiar with computers and able to read and understand engineering drawings and GD & T callouts.
CMM Manager w/ PH20	In addition to the basic CMM Manager course, the students will learn how to use Renishaw's UCC server, which is needed to utilize the PH20 head. The use of the PH20 for measurement will be covered inside of the CMM Manager software.
FOCUS Scan	This is an introductory course where students will learn the basics of the NMI Scan software. The students will learn the fundamentals of using NMI Scan to inspect and/or scan a part. The student will learn probe qualifications, creation of inspection paths, and manipulation of point clouds (filtering, meshing, etc.)
Focus Inspection	This is an introductory course where students will learn the basics of the Focus Inspect software. The students will learn the fundamentals of point cloud manipulation (filtering, meshing, etc.), feature extraction, cross sectioning and reporting.