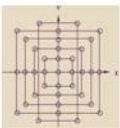


Nikon® i14® Maintenance Training

Retronix provides customized training to your Technicians. In addition to Retronix basic training outline and overview manuals, All Training will utilize Customer manuals and procedures to ensure that the technicians will learn the fundamentals of the tool and the associated documentation that they have at their disposal. This is a tried-and-true method that builds a basic fundamental knowledge for the technicians to build upon as their skills and experience grow. The goal is to train Your Technicians to follow *Your Procedures and BKM's*.

Training Outline (May be customized)

- Day 1 Introduction:** General description and specifications of the Nikon Body 14. Overview of the machine looking at each subsystem and software.
- Day 2 Illumination system:** Detailed description of the i14 illumination optics. Calibration and troubleshooting, uniformity, illumination, telecentricity, calibration of the integrator.
- Day 3 Wafer Stage:** Detailed description of the structure of the wafer stage, the theory of the interferometer system that controls the wafer stage, and overview of the diagnostics tests that monitor performance. Run the stepping and back-step photo tests and tool-to-tool stage matching.
- Day 4 Autofocus system :**Detailed description of the autofocus system and levelling system. Overview of how the system measures wafer flatness, fiducial flatness, BFP flatness,FC2 flatness and chip levelling. Replace the halogen lamp and complete a full autofocus electrical setup.
- Day 5 Wafer alignment systems:** Detailed description of the LSA and FIA wafer alignment systems and diagnostic software. Perform FIA camera adjustments, and run overlay tests.
- Day 6 Reticle Alignment Systems:** Detailed description of the reticle alignment systems, diagnostics software, Perform optical adjustments and perform the reticle rotation check.
- Day 7 Lens and lens controller system:** Description of the Lens, the controller, and their control of the focus and mag. Overview of lens distortion, astigmatism, field curvature, coma and inclination
- Day 8 Wafer loader system:** Description of the wafer loader. Teaching of the Robot, and Wafer Loaders, Camera, prealigner. Troubleshooting of all handling systems.
- Day 9 Reticle loader system:** Overview of construction and operation of the reticle loader.
- Day 10 Course Review and DECterm software:** Setup of scripts for maintenance and PM tasks, Training in the use of the DECterm commands.



In addition to i14, Retronix can provide training for any Nikon Stepper or Scanner.

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