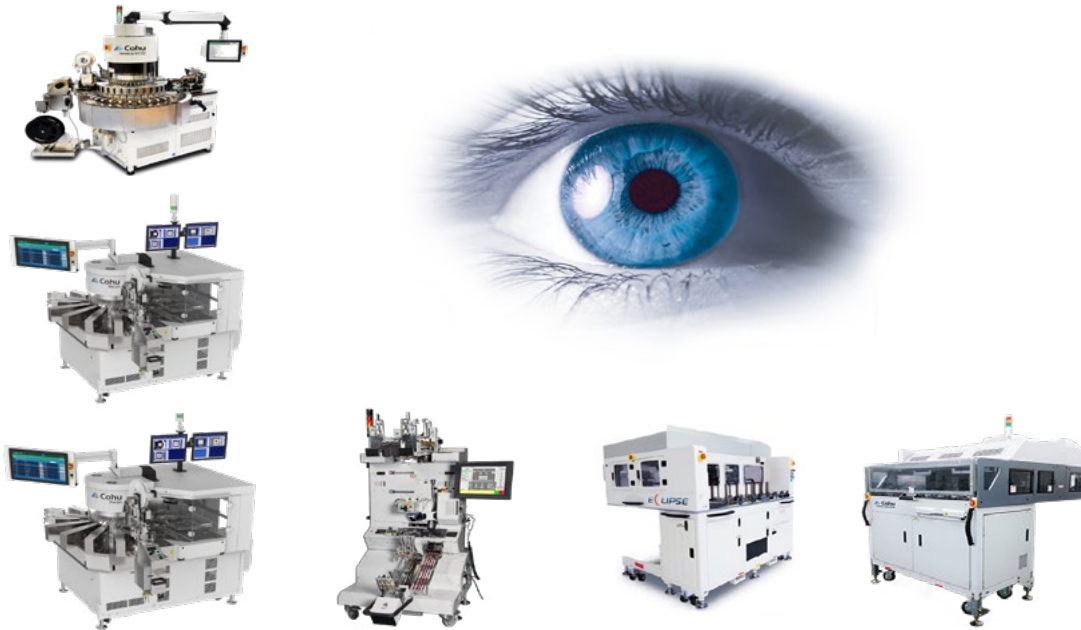# Vision System Training

*NV*core and Native systems

Automotive

Mobility

IoT/IoV & Optoelectronics

Computing & Network

Industrial & Medical

Consumer

Course Description

This Level 2 training material introduces the attendees to the Cohu Vision systems available on Cohu Test Handlers and Inspection equipment.

- Up to 4 engineers can participate simultaneously
- A vision computer is placed at the disposal of every student
- Training is held in-house at Cohu's R&D facility at La Chaux-de-Fonds, Switzerland
- The training course can also be tailored according to your needs, or standard according to our syllabus

Course Outline

- User Interface
- Vision Concepts, Tools and Methods
- Vision Inspections
- PC Hardware Overview
- Q&A, Test, Wrap Up

Course Length

- One week: Monday 1 pm to Friday 12 pm

Recommended

- Students should have a similiar level of knowledge in order to efficiently participate in the training
- English - written and spoken

- Micro-crack Detection
  - Visible HR sidewall solution
  - Infrared sidewall, backside & intape solution
- 3D Flex® for True Ball/Bump co-planarity
- Dedicated micro-crack Algorithm
- ViewMap and Wafer Quality Map

Vision System Training

NVcore

User Interface
- Menus
- User Levels
- Backups
- Creation of new Recipes
- Creation of Reports
- Concept of "Recipe" and "Lot"
- Concept of "Vision Station" and "Vision Inspection"
- Station Settings
- Recipe Settings
- Review Setup (load and use image files on vision)
- Setup Menu
- Calibration

Vision Concepts, Tools and Methods
- Gray Value Scale
- Binarized Image
- Threshold
- Blob
- Edge Detection
- Pattern Match Detection
- Segmentation
- Surface Mask
- OCR

Vision Inspections
- Boundary Check
- Code Reader
- Contact 2D View
- Contact 3D View
- Contact End View
- Contact Side View
- Fiducial
- Generic Measurement
- Head Align Z
- Mark
- Orientation
- Outline Locate
- Package Locate
- Post Sealing
- Presence
- Shift Compute
- Surface
- View Map Align
- View Map Inspection
- Y Marker

Native

User Interface
- Menus
- User Levels
- Backups
- Creation of new Recipes
- Creation of Reports
- Concept of "Recipe" and "Lot"
- Concept of "Vision Station" and "Vision Inspection"
- Station Settings
- Recipe Settings
- Review Setup (load and use image files on vision)
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- Calibration

Vision Concepts, Tools and Methods
- Gray Value Scale
- Binarized Image
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Vision Inspections
- Boundary Check
- Die Align
- Lead 2D
- Lead 3D
- LLP
- Mark
- Orientation
- Package Locate
- Post Sealing
- Presence
- Surface

Certification
- If desired upon successful completion of a test at the end of the training a certification can be provided

More Information/Registration
- Contact training@cohu.com

- Visit our handler training catalog to view our other training offerings www.cohu.com/handler-training