



TRN-CD-CGNX-3D-STD: 3D Sensor featuring Cognex Designer

Course Description:

3D Sensor featuring Cognex Designer gives new or potential DS1000 series users a 2 day overview of the hardware and software used to prototype and deploy basic Cognex Designer applications. The class focuses on 3D range image and 2D grayscale tool usage while building a single application that is then deployed. The class also features basic input and output using precision I/O.

Length: 2 days
Locations: Natick, MA; Onsite
Price: \$1295 (Cognex facility)
Onsite Available – Call 508-650-6359 for Details
Registration: Online at <http://www.cognex.com/training>

Topic List

1. Intro to 3D Sensor and Image Acquisition
2. Sequences and Tools
3. Fixturing
4. Building and HMI
5. CrossSection Tool
6. PlaneEstimator and VolumeCalculator Tool
7. HeightCalculator Tool
8. Shift Registers and Timers
9. I/O and Network Communication
10. Deployment and Image Saving

Expected Outcomes:

You will benefit from this course by learning:

- ☐ About the 3D Sensor hardware and Cognex Designer software
- ☐ How to acquire images
- ☐ How to prototype, develop, and test vision applications in Cognex Designer using VisionPro
- ☐ How and when to use each vision tool (both 2D and 3D)
- ☐ How to add digital I/O and understand about factory floor automation
- ☐ How to create a user friendly HMI to allow the application user access to the results and images from the vision project

Recommended Reading at <http://www.cognex.com/support>:

- 3D Sensor featuring Cognex Designer Standard Manual
- 3D Sensor featuring Cognex Designer Advanced Manual

Prerequisites:

- Familiarity with Windows environment
- C# programming knowledge is recommended