



Advanced Aurora Design Assistant Technical Training

3-Day Agenda**

Day 1

Design Assistant Overview

Lab 1 - Getting Familiar with DA

Blob Tool

Lab 2 - Blob Analysis

1D-2D Barcode Reading

Lab 3A - String Reader & Code

View Utility

Creating an Operator View

Lab 5 - Operator View

Locating Objects

Lab 4 - Model Finder

Deep Learning

Lab 6 - Deep Learning

Day 2

3D

Lab 7A - 3D - Surface

Measurement

Lab 8A - Stripe Marker

DL OCR / String Reader / SureDot

Fixturing

Introduction to QuickComm and PLC Pass or Fail?

Tuning and Validation

Lab 8B - Circle Marker

Image Acquisition

Recipes

Template Projects (CodeReader Template or Presence Absence Template)



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Day 3

Image Processing: Filters, Mappings, Geometric Transforms

Metrology

Lab 7B - 3D using Profiles

Calibration and Real-World Coordinates

Lab 9A - Fit Circle

Using Expressions, Arrays and Variables

Custom Step

Profiler and Monitoring Page

Lab 9B - Parallelism

Optional Topics

Application Specific Discussions

Day 3 Optional topics

Network Communications - Not QuickComm (TCP/IP, MODBUS, Legacy Ethernet/
PROFINET)

Bead Inspection

Code Grading

Robot Steps

Communicating with Other Devices (Digital I/O and Serial Comm)

Color Analysis

Lab 3B - String Reader

Lab 3C - SureDot OCR

Lab 8C - Multiple Stripe Markers

Lab 9C - Angularity

Lab 9D - Perpendicularity

Lab 10 - Rotation Objects