

Matrox Imaging Training Agenda

Agenda for Matrox Design Assistant X Training Fall 2019

Monday, Nov 25, 2019

Time	Topic
8:30 - 9:00	Continental Breakfast
9:00 - 9:15	• Welcome
9:15 - 9:30	• Design Assistant Overview
9:30 - 10:00	• Lab 1 (Getting familiar with DA)
10:00 - 10:45	• Blob Tool
10:45 - 11:00	Break
11:00 - 11:30	• Lab 2 (Shape)
11:30 - 12:00	• Grabbing and View Utility
12:00 - 12:30	• 1D-2D Barcode Reading
12:30 - 13:30	Lunch
13:30 - 13:50	• Lab 3A (Label)
13:50 - 14:20	• Locating Objects
14:20 - 14:50	• Lab 5 (Model Finder)
14:50 - 15:15	• Lab 6 (Image Processing Example)
15:15 - 15:30	Break
15:30 - 16:00	• Creating an Operator View (HMI)
16:00 - 16:30	• Lab 3B (Operator View)
16:30 - 17:00	• Vision Academy

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Tuesday, Nov 26, 2019

Time	Topic
8:30 - 9:00	Continental Breakfast
9:00 - 9:45	• Measuring
9:45 - 10:45	• Labs 7A (Measure Stripe) & 7B (Measure Circle)
10:45 - 11:00	Break
11:00 - 11:45	• Sure Dot OCR and String Reader
11:45 - 12:15	• Lab 4 (Sure Dot OCR)
12:15 - 13:15	Lunch
13:15 - 13:35	• Fixturing
13:35 - 14:05	• Introduction to QuickComm and PLC
14:05 - 14:35	• Lab 8 (Runtime Model Definition Example)
14:35 - 14:50	• Pass or Fail? – Tuning and Validation
14:50 - 15:15	• Lab 7C (Measure Multiple Stripes)
15:15 - 15:30	• Image Acquisition
15:30 - 16:00	• Recipes
16:00 - 16:30	• Work with Template of Choice (CodeReader or Presence Absence)
16:30 - 16:45	Break
16:45 - 17:00	• Image Processing: Filters, Mappings, Geometric Transforms
	Group Dinner

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Wednesday, Nov 27 , 2019

Time	Topic
8:30 - 9:00	Continental Breakfast
9:00 - 9:30	• Calibration and Real World Coordinates
9:30 - 10:00	• Metrology
10:00 - 10:30	• Lab 10A (Fit Circle) & 10B (Parallelism)
10:30 - 11:00	• Custom Step
11:00 - 11:15	Break
11:15 - 12:00	• 3D
12:00 - 13:00	Lunch
13:00 - 13:30	• Lab 11 Calibration with grid
13:30 - 14:00	• Other new DA X features
14:00 - 14:30	• Optimizations (Profiler)
14:30 - 15:00	• Lab 10D (Angularity)
15:00 - 15:30	• Selected Topics
15:30 - 15:45	• Q&A
15:45 - 16:45	• Application Specific Discussions

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Wednesday – Optional Topics

Topic
• Network Communications- Not QuickComm (TCP/IP, MODBUS, Legacy Ethernet/IP and PROFINET)
• Structure of a Template Project
• Color Tool
• Using Expressions, Arrays, Variables
• Bead Inspection
• Code Grading
• Recipe Lab (Add & Remove, Change Parameters, Sync)
• Lab 11 (Calibration with Grid)
• Robot Steps
• Lab 12 (Color Matching)
• Communicating with Other Devices (I/O incl. GPM and serial)