R401
PickMaster 3 Advanced Configuration and Commissioning

Course goal

The goal of this course is to learn advanced tools for Configuration, Commissioning and Maintenance of a PickMaster 3 installation for a multiple robot system with advanced vision functions.

Learning objectives

Upon completion of this course, the participants will be able to:

- Understanding complex PickMaster 3 installations with multiple robots
- Learning advanced product distribution and robot collaboration tools
- Understanding the hardware components, wiring and network connections
- Knowing the capabilities and limitations of advanced vision tools
- Knowing the capabilities and limitations of advanced customization tools
- Creating advanced vision models
- Using the logging tools
- Applying advanced picking specific adoptions in the RAPID code
- Knowledge to select suitable installations for PickMaster 3

Participant profile

This training is targeted to service and application engineers, programmers and system integrators.

Prerequisites

Students shall have passed PickMaster 3 Basic (R400) or PickMaster 3.0 (R208) as well as Advanced Rapid (R).

Topics

- Course Overview
- PickMaster 3 Recap
- Advanced feature scope of PickMaster 3
- Production flows and robot interaction
- PickMaster 3 load distribution functions
- 2,5D Vision calibration
- Advanced vision models
- Advanced RAPID functions
- User hooks
- Trouble Shooting

Course type and methods

This is an instructor led course with interactive classroom discussions and associated lab exercises. Approximately 70% of the course is hands-on lab activities.

Course duration

The duration is 3 days.

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Course outline

Day 1

- Course Overview
- PickMaster 3 Recap
- Multi robot installations
- Electrical wiring
- Calibration
- Use of LB and ATC
- Sorting functions

Day 2

- Advanced vision 2,5D
- Calibration
- 2,5D model types
- Advanced Vision Modeling
- Geometric, blob
- Inspection models
- Color filtering

Day 3

- Rapid adoptions: Utility Module
- Item types and distribution
- Belt speed control
- User Hooks
- Trouble Shooting
- Installation cases and product flow
- Summary and Recap

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