

## R247

# RobotStudio Palletizing PowerPack Design and Simulation

### Course goal

The goal of this course is to learn to configure and simulate palletizing applications with the RobotStudio Palletizing PowerPac.

### Learning objectives

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

- Understanding the possibilities and limitations of RS Palletizing PowerPac
- Understanding of the basic concept of RS Palletizing PowerPac
- How to setup a basic palletizing robot application using Palletizing PowerPac
- How to simulate a palletizing robot using Palletizing PowerPac
- Basic overview over the runtime operation on a robot
- Basic understanding of the RAPID modules

### Participant profile

This training is targeted to proposal, design and commissioning engineers, who develop and customize robot applications for palletizing.

### Prerequisites

Students shall know the fundamentals of working with RobotStudio and the IRC5 robot controller, good knowledge of Windows 7 or XP, and basic understanding of packaging applications. Each student will use their own laptop PC to run the latest version of RobotStudio with Palletizing PowerPac



### Topics

- Course Overview
- Introduction to RS Palletizing PowerPac
- Feature scope
- Gripper, products and patterns
- Feeders
- Job and flow settings
- Slip sheets and pallet stacks
- Gripper types
- Combination of multiple feeders and product batches
- Basic understanding of the RAPID template modules
- Miscellaneous functions

### Course type and methods

This is an instructor led course with interactive classroom discussions and associated lab exercises. Approximately 50% of the course is hands-on lab activities.

### Course duration

The duration is 3 days.

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### Course outline

#### Day 1

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- Documentation
  - Introduction to palletizing with Palletizing PowerPac
  - First Palletizing line
  - Tool and products
  - Feeders and patters
  - Pick settings, Jobs and Flow concept
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#### Day 2

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- Validate and Simulate
  - Multiple Infeeders
  - Slip sheet and pallet stack
  - Multiple Flows
  - RAPID program
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#### Day 3

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- Clamp and Claw grippers
  - Miscellaneous Functions
  - Outlook to course R248 RS Palletizing PowerPac Commissioning and Operation
  - Summary and Recap
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