Course Description

**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 PowerPack.

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

Day 2
- Validate and Simulate
- Multiple Infeeders
- Slip sheet and pallet stack
- Multiple Flows
- RAPID program

Day 3
- Clamp and Claw grippers
- Miscellaneous Functions
- Outlook to course R248 RS Palletizing PowerPac Commissioning and Operation
- Summary and Recap