The goal of this course is to provide instruction in high level programming features and techniques. Designed for students who have successfully completed the IRC5 Programming II for Material Handling (US425) or S4 Programming II for Material Handling (US313) class, and who need a greater depth of knowledge. This course does not provide a review of any previous programming class. This class starts where the S4/IRC5 Programming II for Material Handling class left off.

Topics include
- Multitasking programming techniques
- Creating instructions, functions and data
- Serial communication capabilities
- Load ID and collision detection
- Advanced program displacement
- World zones
- Uploading and downloading of programs
- Using OPC
- User Authorization System

Course objectives
After successfully completing the course, the participant should be able to:

- Create background tasks
- Create custom instruction
- Create custom functions
- Create custom data types
- Transfer information via serial channel
- Setup load ID and collision detection
- Manipulate data values
- Program robot to load and unload programs
- Defines zones for monitoring
- Setup and basic use of OPC
- Setup user levels and grants

Prerequisites
- IRC5 Programming II for Material Handling (US425) or S4 Programming II for Material Handling (US313)

Duration
Course duration is 4.5 days.

Customer Service – Robotics
1250 Brown Road
Auburn Hills, MI 48326, USA
Tel: 1 800 HELP 365 (1 800 435 7365) option 1, option 4
Outside USA/Canada: +1 440 585 7804
Fax: +1 919.666.1388
E-mail: abbuniversity@us.abb.com
www.abb.us/abbuniversity

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