
COURSE OUTLINE - ROBOTICS

OmniCore Single Arm YuMi Programming and Operation

UK R650

Course Outline

Duration 4 days

This training is targeted at Integrators / Programmers

Instructor led seminar with practical exercises.

The language of the course is English

Prerequisites

UK R652 OmniCore Basic Programming & Operation is recommended but not required

Subject areas:

Safety

Performance levels

Safe working practices

Description and operation of the YuMi®

Product Introduction.

FlexPendant Navigation & Jogging the YuMi®

Operate YuMi® system in manual and automatic run mode.

RAPID programming

Create simple programs

Tool Centre Point definition

Workobject coordinate definition

RobotStudio®

Use RobotStudio software to interface with the YuMi®

Setup camera configuration

Use Integrated Vision inspection tools

Program using RAPID code snippets in RobotStudio's text edi-

Continued:

Calibration of the Arm and Hand of YuMi®

Understand how to properly calibrate the arms and the hands.

Utilize YuMi® specific RAPID code

Gripper Instructions

Contact Linear

TuneMaster software

Measuring contact force during robot motion

Understanding YuMi® specific parameters.

Enabling collision error handling

Backup system information

Perform a Backup and Restore

Objectives

On completion, participants will be able to perform:

Safe Operation of the YuMi® equipment

Calibrate YuMi arm and Gripper

Jog robot arm using Joystick and lead-through methods

Create basic RAPID programs

Configure Cameras using RobotStudio's Integrated Vision

Program RAPID code to move robot to a detected object

Program Gripper specific instructions

Measure a contact force using ABB TuneMaster software