

SMART MANUFACTURING TRAINING CENTER



Industry 5.0
People, robots, and smart machines working together.

CSM™ - CONNECTED SMART MANUFACTURING



OP10	OP20	OP30	OP40
<i>ROBODRILL Machine Tending</i>	<i>Laser Etching</i>	<i>Assembly</i>	<i>Packaging</i>
OR	OR		
<i>Machine Tending with CNC Simulator</i>	<i>Serialization</i>		
CONFIGURATIONS			

CSM Features

- All stations utilize FANUC LR Mate robots with iRVision
- FANUC ROBODRILL 3-axis vertical CNC machining center
- Vision inspection of machining operation
- Laser etching of machine part blank for custom logo with Keyence laser
- Vision inspection of etching
- Vision-guided picking and sorting at assembly and packaging
- Packaging of complete kit in logo printed box with choice of colors
- Fully-integrated PLC and robotic cell operation mimicking industrial automation processes
- Rockwell Logix 5000 series PLC programming
- Fault insertion for system training
- Rockwell HMI PanelView interface touch screens
- Fenceless robot cells with safety area scan
- Smart sensor technology over Balluff I/O link with diagnostics
- Project-based mechatronics at each operation
- Dual purpose EOAT on robots with vacuum and mechanical gripping
- Conveyors with VFD variable speed drives
- RFID manufacturing process tracking
- Modular robot work cells that can be used independently
- Materials included for all manufacturing

CERTIFICATIONS, CURRICULUM & SOFTWARE

**Ask your reseller about FANUC education grant offerings before purchase.*

FANUC

Material Handling (MH) CERT Instructor Training and Toolkit:

- (1) online seat for CERT Cart Safety Features
- (1) online seat for Robot Operations
- (1) online seat for HandlingTool
- (1) online seat for HandlingPRO
- (1) seat for live HandlingTool at a FANUC facility
- (1) ROBOGUIDE Simulation Software license
- (1) FANUC Robot Operations Manual
- (1) FANUC HandlingTool Manual
- (1) FANUC HandlingPRO (ROBOGUIDE Simulation) Manual

Material Handling (MH) CERT School Comprehensive Educational Package:

- (25) online seats for Robot Operations
- (25) online seats for HandlingTool
- (25) online seats for HandlingPRO
- (25) ROBOGUIDE Simulation software licenses

CNC:

- FANUC CNC industry-recognized certification
- School instructor receives FANUC training using FANUC-approved curriculum
- FANUC CNC Simulators and FANUC CNC controller for student's certification
- Student will receive letter of completion and instructor can issue student certificates from provided template



Rockwell Automation

INCLUDED

**1 year subscription of
Rockwell Automation EDU Toolkit Bundle**

- Studio 5000 Logix Designer®
- Studio 5000 View Designer,
- plus over 100 more pieces of Rockwell software

Renewable each year through your local distributor.

OPTIONAL

(10) seats of eLearning+ course content

Renewable each year through your local distributor.



Integration Project-Based Learning (PBL) Curriculum

- Daily lesson plans
- Assessment and grade charts



FANUC Advanced
Education Solution Provider

FOR MORE INFORMATION CONTACT:

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