

Certificate of participation Core Training

Certificate number: E202503032919520

Duration in hours: 16 Robot type: e-Series

Leonard Sheehy

27. February 2025

John Capps

John Capps Automation Distribution, Inc.



Curriculum

Leonard Sheehy 27. February 2025

Module 1: Pick-and-place application

- Moving the robot by using the "Move" tab
- Knowledge about the I/O Connections and how-to setup
- How to configure the TCP
- How to setup a Home Position
- Basic knowledge about URCaps
- Apply skills acquired in the online training to an actual robot
 Programming a Pick-and-place application

Module 2: Safety settings

- · Configuration and use the available safety settings
 - Robot limits
 - · Joint limits
 - Safety planes
 - Tool position
 - Direction
 - Configurable Inputs/Outputs
 - Safe Home

Module 3: Optimize a pick-and-place application

- Basic knowledge about singularities
- · The different movement types and how to use them
 - MoveJ
 - MoveL
 - MoveP
 - MoveC
- How to configure a blend radius
- Configuration of speed and acceleration of movements and individual waypoints
- · How to use the Time to investigate the cycle time
- Creation of a clear program structure

Module 4: Easy startup

- Configuration of a default program that starts automatically when the robot powers up
 - Programming a BeforeStart-Sequence
 - How to program relative Waypoints
 - How to setup the remote control
 - Setup a default program

Module 5: Program flow

- · Configuration and use if-else commands
- Basic knowledge about variables
- How to program a subprogram

Module 6: Palletizing

· Configuration and usage of the palletizing template

Module 7: Force control (simple)

- Knowledge about the Force control (simple)
- Knowledge about and how to program Threads
- Configuration of the Force control (simple)
- Using the data of the integrated force and torque sensor in a program

Module 8: Process application with operator selection

- Configuration of the TCP, orientation and payload using the available wizards
- Programming loop statements
- Prompt operator for variable input
- · Configuration and usage of switch-case commands
- · Catching and handling an invalid entry

Module 9: Flexible redeployment

- How to create a coordinate system (Plane)
- How to program relative to a coordinate system

Module 10: Implementation plan

• A structured method (ten steps) to identify and evaluate the complexity of the automation capabilities in your cobot

Module 11: Online resources

- Free software updates
- User, service and script manuals
- · CAD data of the robot, Teach Pendant and controller
- Offline simulator



Certificate of participation Teacher Certification Training

Certificate number: E202504182919520 Duration in hours: 16 Robot type: e-Series

Leonard Sheehy

18. April 2025

Dylan Shanahan Universal Robots Academy NA



Curriculum Leonard Sheehy 18. April 2025







CERTIFICATE OF ACHIEVEMENT

In keeping with our commitment to excellence, this certifies that

LEONARD SHEEHY

Has successfully completed the course for

SOLIDWORKS ESSENTIALS

Instructor: Brandon Abercrombie Date: July 08, 2022



Gian Paolo Bassi CEO Dassault Systèmes SolidWorks Corp.



Smart Automation Certification Alliance INDUSTRY 4.0 CERTIFICATION

Dr. Leonard Sheehy

has successfully completed all requirements for SACA's Silver Certification*

Certified Industry 4.0 Associate -Advanced Operations



SACA's Exe	cutive Directe	or:	aleal	
Certification No.	P5S9DG		Jun 17, 2025	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~



Smart Automation Certification Alliance INDUSTRY 4.0 CERTIFICATION

Dr. Leonard Sheehy

has successfully completed all requirements for SACA's Silver Certification*

Certified Industry 4.0 Associate - Robot System Operations



SACA's Executive Director:	a wall	
Certification No. HMDRWF	Jun 12, 2025	c

*Silver Certification Denotes Technical Knowledge Mastery



Smart Automation Certification Alliance INDUSTRY 4.0 CERTIFICATION

Dr. Leonard Sheehy

has successfully completed all requirements for SACA's Silver Certification*

Certified Industry 4.0 Associate - Basic Operations



SACA's Exe	cutive Direct	or:	am	aleal	
Certification No.	P794Q5			Mar 21, 2025	3

*Silver Certification Denotes Technical Knowledge Mastery