FANUC Robotics

Aligned Program of Study:

- Mechatronics
- Technology

Description

The FANUC Robotics certification offers students the opportunity not only to learn about real-world industrial automation but also to prepare for it. FANUC Robotics America Corporation has been engineering, designing, and manufacturing cutting edge robotic solutions for companies located globally for over 35 years. With such a large presence in manufacturing today, FANUC certification is in high demand.

FANUC's Certified Education Robot Training (CERT) program allows schools to train students on how to use the latest robotic automation while applying science, technology, engineering, and math. These programs significantly enhance student learning and provide training for real-world applications with real-world industrial robots. Students receive an industry-recognized certification upon course completion.

FANUC Robotics Certifications are available at two levels. These certification programs are focused on the core Robot Operator skills needed by entry-level or incumbent workers.

Level 1: FANUC – CERT Handling Tool Operations & Programming certificate

This certificate is intended for students with no prior experience in Robotics or Automation, but a basic knowledge of engineering fundamentals and practices is helpful. FANUC recommends that applicants review the online eLearning curriculum on Safety and Operations/ Programming and have at least 80 hours of classroom time working with the curriculum and hands-on programming of the robot.

Level 2: FANUC Certified Robot Operator 1 (FRC-01)

The FANUC FCR-O1 is a national assessment is based on FANUC's industry-recognized CERT Program, inclusive of FANUC's Robot Operations, HandlingPRO, HandlingTool Operations and Programming curriculums, Roboguide Simulation Software, and hands-on FANUC robot labs, provided by a FANUC certified academic instructor.

Certification Information

Test Owner:

Level 1 Test Owner:
FANUC America
3900 West Hamlin Road
Rochester Hills, MI 48309
(888) 326-8287

Level 2 Test Owner
NOCTI Business Solutions
500 N Bronson Ave
Big Rapids, MI 49307
(231) 796-4695

Testing Sites/Centers

Each CERT School (school who has purchased a FANUC CERT cart/robot & CERT program) is eligible to act as a testing site. The instructor must complete the 4-step process to become certified. Once he or she becomes certified, the school now becomes a FANUC Certified Training Center for Material Handling. Any student that participates in the robotic program and completes the steps can receive a CERT Handling Tool Operations & Programming Certificate (Note: it is not FANUC that provides the certification, it is the school's FANUC Authorized (certified instructor).

To become an approved testing site go to https://www.fanucamerica.com/CERT/fanuc-education-resellers.

The required testing agreement can be found at https://www.esigngenie.com/esign/onlineforms/fillOnlineForm?encformnumber=nu%2Fz%2FpSDMuENIOnbZk6jlA%3D%3D&type=link.

Registration Procedures
Level 1: FANUC – CERT Handling Tool Operations & Programming certificate
Contact Technical Training Aids. (800) 851-3987, jason@ttaweb.com.

Level 2: FANUC Certified Robot Operator 1 (FRC-01)
Students who have completed the FANUC course and at their school have the CERT Handling Tool Operations & Programming Certificate have the opportunity to take the FANUC Certified Robot Operator 1 (FRC-O1) Assessment, a Nationally Recognized Assessment exam managed by NOCTI Business Solutions (NBS). Once a student successfully earns the CERT Handling Tool Operations & Programming certificate, they are now eligible to take the FANUC Certified Robot Operator 1 (FRC- 1) assessment for certification.

Preparing to offer the certification
Required Instructor Qualification:
FANUC's Certified Education Robot Training (CERT) program certifies instructors at high schools, trade schools, community colleges, and universities to train their students to program FANUC robots through on-line and hands-on training courses.

The process for an instructor to get Certified to provide a certificate to students:

- Purchase or own an approved FANUC CERT Robot Cart
- Register for, and attend, the live training course at one of the FANUC approved locations for (J2P0310) Handling Tool Operation and Programming: https://www.fanucamerica.com/fanuc-america-product-support/fanuc-product-training/robodrill-robotics-training/schedule
- Progress through the eLearn course (good idea to do this before the live course if possible)
- Pass the NOCTI Robotics Exam
- Send a training lesson and be accepted by the FANUC Training Group

Exam Details:
Level 1: FANUC – CERT Handling Tool Operations & Programming certificate

Level 2: FANUC Certified Robot Operator 1 (FRC-01)
This is a written assessment for an entry-level position as a robotics associate in manufacturing. The assessment

exams allow the candidate to demonstrate their knowledge in Robot operations, frame setup, writing, modifying and executing basic motion programs, program offsets, backups and restorations, and creating and modifying simulations.

Materials and Resources:
Level 1: FANUC – CERT Handling Tool Operations & Programming certificate

- Information is at http://www.FANUCamerica.com/CERT/
- The price for the tests is included with a purchase of the cart.

Level 2: FANUC Certified Robot Operator 1 (FRC-01)

- Requires purchase of FANUC CERT cart and materials.
- Information is at https://www.nocti.org/CertificateProgram-FANUC.cfm
- Study materials are at https://www.nocti.org/PDFs/blueprint/8697.pdf

Addition FANUC materials and resources can be found at this website: http://www.FANUCamerica.com/CERT/

Assistance is available from Technical Training Aids. (800) 851-3987, jason@ttaweb.com

Vendors
TDOE does not currently have data-sharing agreements with any FAUNC Robotics vendor, therefore the burden of proof to provide evidence of earning the certification will be on the school system.