NOCTI
Partner Credential Blueprint

FANUC

FANUC Certified Applied Robot Operator Instructor

Code: 9186 / Version: 01

General Assessment Information

Blueprint Contents

Test Type: The FANUC Certified Applied Robot Operator Instructor national credentialing assessment is based on FANUC's industry recognized CERT Program, inclusive of FANUC's Robot Operations. Eligible instructors will earn the FANUC Certified Applied Robot Operator Instructor certification.

CIP Code

48.0501 - Machine Tool Technology/Machinist

Learning that works for America CTE™

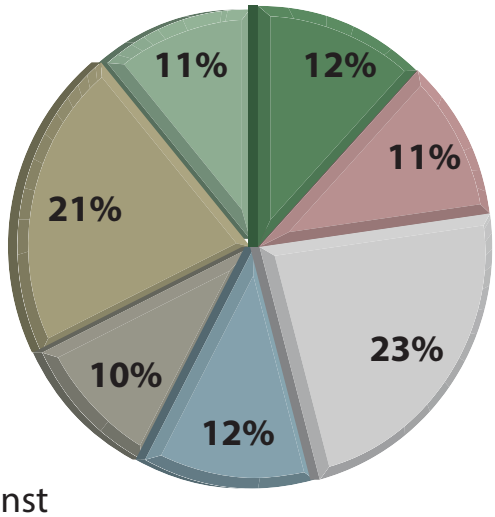
Science, Technology, Engineering, and Mathematics

O*NET™ in*it

51-4011.00 Computer-Controlled Machine Tool Operators, Metal and Plastic

Performance Assessment

NOCTI performance assessments allow individuals to demonstrate their acquired skills by completing actual jobs using the tools, materials, machines, and equipment related to the technical area.



Administration Time: 4 hours and 25 minutes
Number of Jobs: 4

Areas Covered:

12% Perform Basic Robot Operations
Participant will perform operations to place the robot into T1 mode and document error codes, check tooling for proper operations through the I/O screen, jog the robot to absolute zero position, and check against visible mastering marks.

11% Create a Tool Frame and User Frame
Participant will use a six-point method to set up a tool frame and use a three-point to create a user frame.

23% Write and Execute a Simple Robot Program and Modify the Program
Participant will write a simple program that maneuvers around obstacles with fine termination and copy the program from Part 1 and Part 2. Joint motions will be at 100%. Linear motions will be at 1,000 mm/sec.

12% Offset the Program in an Upward Direction Using Two Methods
Participant will use the program created in Job 3 Part 1 to copy and rename the program to perform operations.

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Specific Standards and Competencies (continued)

10% Perform Backups and Restoration
Participant will perform operations to set removable device type path, format the removable disk and create directory, create a standard file backup, demonstrate to the evaluator generating a directory of all files, and create an image backup.

21% Create Simulation Based on Backup in Job 5
Participant will create simulation of cell from previous job backup, add EOAT, add fixtures, add parts, add obstacles, run Job 3 Part 1, create AVI, and play for the evaluator.

11% Modify Simulation Program from Job 6 and Download into Robot
Participant will perform the operations in HandlingPRO and at the robot will generate a directory of the SV files on the removable device. The participant will load the file, perform in single step test, notify the evaluator, and execute the program.

Sample Job

Create a Tool Frame and User Frame

Maximum Time: 30 minutes

Participant Activity: The participant will use a six-point method to set up a tool frame. The evaluator will determine the tool frame number. The participant will jog the robot to the reference position to verify tool frame accuracy. The participant will notify the evaluator once this step has been completed. The evaluator will have the participant demonstrate accuracy of the Tool Center Point with the reference pointer.

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