MIAMI VALLEY CAREER TECHNOLOGY CENTER

Curriculum Plan 2026-2027

Program: Robotics and Automation

CTSO Primary: SkillsUSA 2

CTSO Secondary: SkillsUSA 2

Pathway: R9

WebXam: 26MC

Courses Offered

Level 1 Curriculum

Semester 1 Manufacturing Operations

Semester 2 Principles Of Advanced Manufacturing

Level 2 Curriculum

Semester 1 Engineering Principles

Semester 2 Industrial Robotics

Level 2-School-to-Work 2 Week Rotation Curriculum

Semester 1 Pre Apprenticeship

Semester 2 Pre Apprenticeship

Semester 1 Engineering Principles

Semester 2 Engineering Principles

Level 2-Advanced Placement Curriculum

Semester 2 Pre-apprenticeship

College Credits Available

Name	College	Semester Hours Available
CTMET004 Manufacturing Operations, ODE Course Number 175003	CTAG	3
MET 1131 PC Applications for Engineering Technology	Sinclair College	1
EGR 2252 Teach Pendant Robot Programming	Sinclair College	2
CTIR001 Industrial Robotics, ODE Course Code 176025 (Industrial Robotics)	CTAG	3
MET 1301 SolidWorks Basics	Sinclair College	4

Credentials Available

Name	ODE Points Available
Ohio State Apprenticeship Council Recognized Pre-Apprenticeship Program Certificate of Completion - Engineering	12
Ohio Driver's License (Self Obtained)	1
Motoman FS100/DX100 Basic Programming w/Material Handling/Yaskawa FS100	6
Fanuc - Handling Tool Operation & Programming J2P0310 IACT Approved	6
Programmable Logic Controllers Certification - Allen Bradley	6
Certified SolidWorks Associate (CSWA)	4