

MANUFACTURING PROGRAMS

Education and Training Pathways

Explore 30 CNM programs connected to advanced manufacturing careers.

FIND YOUR ENTRY POINT

Equipment Design, Test, Maintenance 3 programs	Equipment Maintenance 3 programs
Fabrication 14 programs	Industrial Automation & Maintenance 2 programs
Manufacturing Systems Automation 7 programs	Operations 1 program

EQUIPMENT DESIGN, TEST, MAINTENANCE

3 PROGRAMS

01

Photonics

Professional Certificate

Minimum credits: 27 | Estimated completion: 2 terms

Photonics Certificate of Completion

[VIEW PROGRAM DETAILS](#)

02

Quantum Computing Technician

Professional Certificate

Minimum credits: 25 | Estimated completion: 2 terms

Quantum Computing Technician Certificate of Completion

[VIEW PROGRAM DETAILS](#)

03

Quantum Technician

Job Training

Workforce Training | Estimated completion: 10 weeks

Deep Dive Quantum Technician

[VIEW PROGRAM DETAILS](#)

EQUIPMENT MAINTENANCE

3 PROGRAMS

04

Airframe Maintenance Technician

Professional Certificate

Minimum credits: 44 | Estimated completion: 3 terms

Airframe Maintenance Technician

[VIEW PROGRAM DETAILS](#)

05

Aviation Maintenance Technology

Associate Degree

Minimum credits: 86 | Estimated completion: 6 terms

Aviation Maintenance Technology

[VIEW PROGRAM DETAILS](#)

06

Powerplant Maintenance Technician

Professional Certificate

Minimum credits: 43 | Estimated completion: 3 terms

Powerplant Maintenance Technician

[VIEW PROGRAM DETAILS](#)

07

Physics

Associate Degree

Minimum credits: 60 | Estimated completion: 4 terms

Physics Associate of Science

[VIEW PROGRAM DETAILS](#)

08

3D Printing the Future: Intro to Additive Manufacturing

Job Training

Workforce Training | Estimated completion: 3 sessions over 3 weeks (16 hours total time)

3D Printing the Future: Intro to Additive Manufacturing

[VIEW PROGRAM DETAILS](#)

09

Basic Machine Tool Technology

Professional Certificate • Job Training

Minimum credits: 24 | Estimated completion: 2 terms

Basic Machine Tool Skills Certificate

[VIEW PROGRAM DETAILS](#)

10

Carpentry Technology, General Woodworking and Construction

Associate Degree

Minimum credits: 60 | Estimated completion: 4 terms

Carpentry Technology (AAS), General Woodworking and Construction

[VIEW PROGRAM DETAILS](#)

11

Electrical Photovoltaic (PV) Concentration

Associate Degree • Job Training

Minimum credits: 70 | Estimated completion: 5 terms

Associate of Applied Science Photovoltaic (PV) Concentration

[VIEW PROGRAM DETAILS](#)

12

Electrical Solar Electric (PV)

Professional Certificate • Job Training

Minimum credits: 13 | Estimated completion: 1 term

Solar Electric (PV) Certificate of Completion

[VIEW PROGRAM DETAILS](#)

13

Electrical Trades

Professional Certificate

Minimum credits: 42 | Estimated completion: 3 terms

Electrical Trades Certificate of Completion

[VIEW PROGRAM DETAILS](#)

14

Engineering Technician

Professional Certificate

Minimum credits: 22 | Estimated completion: 2 terms

Engineering Technician Certificate of Completion

[VIEW PROGRAM DETAILS](#)

15

Explosives Technician

Professional Certificate

Minimum credits: 31 | Estimated completion: 3 terms

Explosives Technician Certificate of Completion

[VIEW PROGRAM DETAILS](#)

16

Machine Tool Technology

Associate Degree • Job Training

Minimum credits: 60 | Estimated completion: 5 terms

Machine Tool Technology, Associate of Applied Science

[VIEW PROGRAM DETAILS](#)

17

Residential Carpentry

Professional Certificate

Minimum credits: 27 | Estimated completion: 2 terms

Residential Carpentry, Certificate of Completion

[VIEW PROGRAM DETAILS](#)

18

Soldering IPC-J-STD-001 Certification

Professional Certificate • Job Training

Workforce Training | Estimated completion: 40 hours (5 days)

IPC-J-STD-001 Certification

[VIEW PROGRAM DETAILS](#)

19

Welding

Professional Certificate • Job Training

Minimum credits: 40 | Estimated completion: 3 terms

Welding Certificate of Completion

[VIEW PROGRAM DETAILS](#)

20

Welding

Associate Degree • Job Training

Minimum credits: 62 | Estimated completion: 4 terms

Welding Technology Associate of Applied Science

[VIEW PROGRAM DETAILS](#)

INDUSTRIAL AUTOMATION & MAINTENANCE

2 PROGRAMS

21

Mechatronics Industrial Automation Technician

Professional Certificate • Job Training

Minimum credits: 34 | Estimated completion: 2 terms

Industrial Automation Technician Certificate of Completion

[VIEW PROGRAM DETAILS](#)

22

Mechatronics Industrial Technician

Professional Certificate • Job Training

Minimum credits: 17 | Estimated completion: 1 terms

Industrial Technician Certificate of Completion

[VIEW PROGRAM DETAILS](#)

MANUFACTURING SYSTEMS AUTOMATION

7 PROGRAMS

23

Computer Information Systems, Cybersecurity

Professional Certificate

Minimum credits: 33 | Estimated completion: 3 terms

Cybersecurity Certificate of Completion

[VIEW PROGRAM DETAILS](#)

24

Computer Information Systems, Cybersecurity

Associate Degree • Job Training

Minimum credits: 62 | Estimated completion: 4 terms

Computer Information Systems, Cyber Security Concentration

[VIEW PROGRAM DETAILS](#)

25

Artificial Intelligence and Machine Learning

Professional Certificate

Minimum credits: 24 | Estimated completion: 2 terms

Artificial Intelligence and Machine Learning Certificate of Completion

[VIEW PROGRAM DETAILS](#)

26

Artificial Intelligence and Machine Learning

Associate Degree

Minimum credits: 62 | Estimated completion: 4 terms

Artificial Intelligence and Machine Learning Associate of Applied Science

[VIEW PROGRAM DETAILS](#)

27

Electrical Programmable Logic Controls (PLC) Concentration

Associate Degree • Job Training

Minimum credits: 67 | Estimated completion: 5 terms

Associate of Applied Science Programmable Logic Controls (PLC) Concentration

[VIEW PROGRAM DETAILS](#)

28

Electrical Programmable Logic Controls (PLC) Systems

Professional Certificate • Job Training

Minimum credits: 52 | Estimated completion: 4 terms

Programmable Logic Controls (PLC) Systems Certificate of Completion

[VIEW PROGRAM DETAILS](#)

29

Internet of Things (IOT)

Job Training

Workforce Training | Estimated completion: 10 weeks

Deep Dive Coding Internet of Things

[VIEW PROGRAM DETAILS](#)

OPERATIONS

1 PROGRAM

30

Manufacturing Essentials

Professional Certificate • Job Training

Workforce Training | Estimated completion: 80 hours (4 weeks)

Manufacturing Essentials Course Series

[VIEW PROGRAM DETAILS](#)