

Advanced Manufacturing Apprenticeships

County College of Morris (CCM) is offering pre-apprentice training and apprenticeship programs for those looking to build rewarding and well-paying careers in the high-demand field of advanced manufacturing.

The Boot Camp offers up to four college credits, interaction with potential employers, and the use of CCM's state-of-the-art classroom and manufacturing lab space in the Advanced Manufacturing and Engineering Center. Scholarships and funding for the un/under employed are available. Earn certification in OSHA-10, up to two NIMS (National Institute for Metalworking Skills) and SolidWorks certifications as well.

Course Code	Course Title	CEUs
MFG-101E	Shop Basics	3.3
MFG-106E	Advanced Manufacturing Core	12.6
MFG-130E	CAM Fundamentals	2.4
MFG-108E	NIMS Certification Prep	3

Estimated Supplies: \$500

Participation in this program can lead to better job opportunities in a year or less. Those who complete apprenticeships have a high rate of immediate employment in the manufacturing sector with 90% retaining employment after completion.

To learn more about apprenticeships in advanced manufacturing, visit [Apprenticeship.gov \(https://www.Apprenticeship.gov\)](https://www.Apprenticeship.gov)

For information on CCM Apprenticeships in Advanced Manufacturing, go to [www.ccm.edu/workforce/ \(https://www.ccm.edu/workforce/\)](https://www.ccm.edu/workforce/) or email wfd@ccm.edu.

Courses

Shop Basics

Required for all students. In this introductory course, establish a comprehensive understanding of the manufacturing process, including how to remain safe on the job and in the shop. MFG-101E.

Advanced Manufacturing Core

Building upon the information learned in Shop Basics, Advanced Manufacturing Core provides you with further knowledge in the areas of Blueprint Reading, Geometric Dimensioning & Tolerancing (GD&T), Bench Working Skills, Safety, 2-D AND 3-D Computer Aided Design (CAD), Manual Machining and Computer Numerically Controlled Machines (CNC). After successful completion of this class, students will be eligible to earn OSHA-10 Safety Certification and NIMS: Measurement Material and Safety Certification. MFG-106E.

CAM Fundamentals

This class will provide you with the knowledge to create G-Code form 3D models using Computer Aided Manufacturing (CAM). Students will learn how to then use these codes to produce parts on the Computer Numerically Controlled Machines (CNC) MFG-130E.

NIMS Certification Prep

The National Institute for Metalworking Skills (NIMS) Certification Prep class provides students with practice exams and lab time to improve their skills. Students will be eligible to earn the NIMS: Bench Work & Layout certification upon completion of this class. MFG-108E.
