



WORKFORCE DEVELOPMENT PROGRAMS IN  
**Advanced Manufacturing**

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**Advanced Manufacturing**

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## Advanced Manufacturing Apprenticeships at CCM

An apprenticeship is a mutually beneficial relationship between an employer and a potential employee. Apprentices in CCM's innovative programs will gain knowledge, skills, and expertise through state-of-the-art training. Employers benefit from having CCM deliver quality instruction to students with the potential to supply a business with a skilled, enduring workforce.

Our pre-apprenticeship program is the first step toward a rewarding career in the field of Advanced Manufacturing. Gain knowledge, skills, and expertise in Advanced Manufacturing through CCM'S state-of-the-art training facility. Benefit from resume preparation, interview practice, and direct connections to employers. Prepare for an entry level position into a sustainable career with one of CCM's industry partners.

Pre-Apprenticeship Boot Camp: for those who need to be trained in the basics of machining. There is a fee to take part in the boot camps; however, scholarship opportunities are available and the program can be taken at a reduced cost or free of charge. Two options are offered: daytime, or evening/weekend. Day cohorts are 7-10 weeks long at about 20 hours a week. Evening/weekend is about 20-22 weeks long at about 11 hours a week.

Boot camp courses include:

Shop Basics

Advanced Manufacturing Core

CAM Fundamentals

NIMS Certification

Upcoming cohorts:

[Winter A.M. Schedule](#)

12/9/24 – Shop Basics (virtual, self-paced)

1/6/25 through 2/27/25- Advanced Manufacturing Core (Mon-Thurs, 9 a.m.-3 p.m.)

[Spring A.M. Schedule](#)



### Winter/Spring P.M. and Weekend Schedule

12/9/24 – Shop Basics (virtual, self-paced)

1/21/25 through 6/21/25 – Advanced Manufacturing Core (Tues & Thurs, 5:30-8:30 p.m. and Sat 9 a.m.-3 p.m.)

#### Related Courses

**Shop Basics (MFG-101E)**



**Advanced Manufacturing Core (MFG-106E)**



**CAM Fundamentals (MFG-126E)**



**NIMS Certification (MFG-108E)**



Check out this video to learn more about CCM's Advanced Manufacturing facility and training programs.



## **The Apprenticeship Program:**

CCM'S apprenticeships are registered through the Department of Labor and elevate an incumbent worker or a new hire's skillset. Industry partners benefit from this form of training as it provides more avenues for supplemental funding sources, quality training with CCM's instructors, and it will supply an enduring workforce.

Apprentices are hired by a company to take part in on-the-job training, while receiving related technical instruction, for about 12-24 months. During an apprenticeship, participants are trained at the company as well as on CCM's campus. As company employees, they receive the same benefits everyone else does, there is just an added training component.

Apprenticeships are also available to companies that want to provide



partner with CCM to conduct interviews and provide apprenticeship opportunities for our students. Current apprenticeship opportunities: CNC Operator: Milling, CNC Operator: Turning, CNC Operator: Milling and Turning, Robotics, CAD/CAM, Die Manufacturing, Quality Assurance/Quality Control, Machine Maintenance.

Classes include:

- Blueprint Reading and Measurements
- Geometric Dimensioning and Tolerancing
- Introduction to Manual Machining
- Introduction to CNC
- Introduction to Universal Robots

If your business is interested in partnering with CCM through an innovative apprenticeship program, please reach out to us at: [wfd@ccm.edu](mailto:wfd@ccm.edu)

#### Related Courses

**Blueprint Reading and Measurements (WDT-145E)** +

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**CAM Fundamentals (MFG-126E)** +

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**Geometric Dimensioning and Tolerancing (GD&T) (WDT-146E)** +

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**Introduction to Manual Machining (WDT-217E)** +

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**Introduction to CNC (WDT-149E)** +

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**Introduction to Universal Robots (WDT-237E)** +

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### **NEW! Smart Automation Certification Alliance (SACA) Level 1 Certification Program**

NEW! Robotics and Automation Bootcamp leading to SACA Level 1 Certification. [Read more...](#)



**Q: Do you need to have previous experience in Advanced Manufacturing?**

*A: No, people with prior knowledge are welcomed to join the program.*

**Q: Does this course start every semester?**

*A: No, this course is continuous rolling admission, which means start when you are ready.*

**Q: How long is this program?**

*A: Our boot camp program runs about 7 weeks for day, and 16-20 weeks for evening/weekend.*

**Q: Is this program completely virtual?**

*A: No, the introductory course is almost completely virtual, but the main courses are completed on campus at County College of Morris.*

**Q: Is this program hands-on?**

*A: Yes, you will be training and developing skills on state-of-the-art machinery within our Advanced Manufacturing & Engineering Center.*

**Q: Is there an opportunity for scholarships?**

*A: Yes, we have different funding sources available at different times, so please reach out to find out if we have funding for you.*

**Q: How many hours do you need to dedicate to the program?**

*A: About 20 hours per week for our day program and 11 hours for our evening/weekend program.*

**Q: What does the hands-on training schedule look like?**

*A: Day students will be on campus from 9:00 a.m. until 3:00 p.m. for 4 days a week. Evening/weekend students will be on campus from 5:30-8:30 p.m. two weekdays, and 9:00 am to 3 p.m. on Saturdays.*

**Q: Do I need to buy a textbook for this program?**

*A: No, textbooks are not required for our boot camp and materials needed will be provided during class.*

**Q: Do I need to purchase supplies for this program?**

*A: The only supplies needed for our boot camp are steel toe or heavy leather shoes.*

**Q: What type of machines will I be working with?**

*A: Machines you will be using are Computer Numerically Controlled (CNC) and Manual Mill and Lathe Machines.*

**Q: How much will I make if I am hired by a company partner?**

*A: Students will earn a minimum of at least \$17.00 an hour.*

**Q: What certifications will I receive?**

*A: You will receive an OSHA-10 and NIMS Level 1 certification during our boot camp. Our program offers optional courses for you to receive additional credentials.*

**Q: Will I receive college credit after completing this program?**

*A: Yes, you will have the opportunity to receive 4 college credits after completion of our program.*



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## Staff

[Anthony Horbert, Coordinator and Instructor, Advanced Manufacturing and Engineering Center](#)

Anthony has spent 10+ years in advanced manufacturing, while holding many positions from prototyping and research and development, to CAD drafter and engineering technician. He uses both his knowledge of manufacturing and his industry experience to create a unique and engaging environment for his students.

[Sergio Jiménez, Lab Assistant](#)

Sergio began as a student in this program, and immediately took an interest in manufacturing. He rapidly advanced to be a leader in the classroom as the Advanced Manufacturing and Engineering Center's Lab Assistant. Sergio is a testament to the career building programs the school has to offer.

## Contact Us

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#### **Useful Links**

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[CCM Catalog](#)

[Browse Courses](#)