

Our Mission

Minuteman Technical Institute values collaboration with business leaders, community partners, and other post-secondary institutions. Minuteman provides career and technical education that cultivates student passion while offering rigorous and practical learning opportunities to adult learners. Through a challenging hands-on curriculum, students develop the academic, vocational, and technical skills necessary to be productive members of a global community. We value life-long learning that fosters personal and professional development in a safe and respectful environment. Minuteman is committed to preparing all students for success.



Minuteman Technical Institute
758 Marrett Road
Lexington, MA 02421



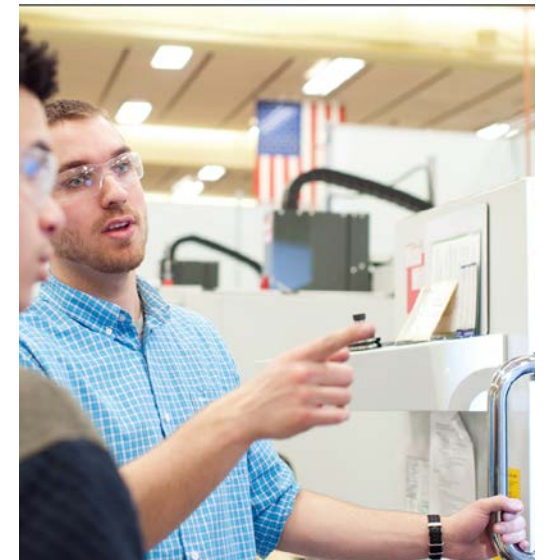
Advanced Manufacturing

Live a Better Life.

Join High Growth Industries.

Train with Experts.

Receive the Attention You Deserve.





Industry Recognized Certifications

Students will graduate with an Advanced Manufacturing certification in addition to the OSHA 10-Hour certification, and American Red Cross First Aid/CPR/AED, and Hot Works Certifications.

Manufacturing Business Partners

MTI's advisory committee is actively engaged in offering work-based learning opportunities and will review students professional career plans.

Excellent option for **adults changing careers** or **high school graduates** taking a **GAP year**.

Program Outline

BLOCK ONE

- Math Boot Camp
- Materials and Material Prep
- Process planning
- Machine tool overview
- Tooling overview
- Milling process and Turning process
- CNC control introduction
- CAD introduction: 3D model
- Hand skills
- Metrology
- Inspection
- G-code introduction

BLOCK TWO

- OSHA 10-hour
- American Red cross first aid/CPR
- Blueprints and engineering drawings
- CAM introduction
- Additive manufacturing
- Finishing techniques
- Machine maintenance
- CNC control
- Fasteners

- Design for manufacture
- Fits and finishes

BLOCK THREE

- Advanced CAD/CAM
- Assorted CAD/CAM
- Surface grinding
- Employability and Entrepreneurship
- Online course
- Introduction to multi-axis machining
- Advanced blueprint interpretation
- Geometric Dimensioning and Tolerancing
- Lean manufacturing

MTI's Advanced Manufacturing program is the newest program at Minuteman with cutting edge technology and advanced computerized machinery, equipment and technology. Students in this program will learn the layout process, the setup and procedures necessary to operate equipment such as CNC lathes, CNC milling and turning machines. Students will also gain experience taking a product from conception to manufacturing using innovative CAD/CAM software.

Program Schedule

October 1, 2018-June 16, 2020

The Advanced Manufacturing Program is **900 hour two (2) year** program broken into three 300-hour blocks. This program is taught two (2) nights per week, five and a quarter (5 1/4) hours per night, or ten and a half (10.5) hours per week. Classes are held Monday and Wednesday during year one and on Tuesday and Thursday in the second year from 4:30 p.m. – 9:45 p.m. Students are also required to participate in on-line course work throughout the program.

Contact Us

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