



# Career Launchpad Manufacturing and Automation

With the Career Launchpad, Hudson Valley Community College has fast-track options that can get you re-skilled for a new or better career!

## Course/Program Offerings

### 3D Printing with AutoCAD - Beginner

This instructor-led beginner course will allow students to work on the Windows-based AutoCAD program to create 3D models that can be used in the 3D printing process. Upon completion of this class, students will have a better understanding of this technology and how CAD programs work with the 3D printing process.

#### **Related Occupational Outlook Information:**

Architecture and Engineering Occupations (<https://www.bls.gov/ooh/architecture-and-engineering/home.htm>)

Machinists and Tool and Die Makers (<https://www.bls.gov/ooh/production/machinists-and-tool-and-die-makers.htm>)

### 3D Printing with SolidWorks - Beginner

This instructor-led beginner course will allow students to work on the Windows-based SolidWorks program to create 3D models that can be used in the 3D printing process. Upon completion of this class, students will have a better understanding of this technology and how CAD programs work with the 3D printing process.

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### Geometric Dimensioning & Tolerancing

The Geometric Dimensioning and Tolerancing (GD&T) course is designed as an overview of the topics relating to the application and understanding of GD&T. Suitable for team members at all levels, including engineers, designers, quality personnel and production staff, the course is based on the current ASME Y14.5 Dimensioning and Tolerancing standard.

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## Get in Touch

Center for Careers and Transfer | (518) 629-7326 | [cce@hvcc.edu](mailto:cce@hvcc.edu)



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## Course/Program Offerings

### Inventor-Introduction

This introductory course in Autodesk Inventor provides individual training in the basics of parametric modeling, files and management. It teaches individuals how to the software interface, drawing functions, drawing aids, and assembles.

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### Manufacturing Technology Pathways Boot Camp: Center for Economic Growth

Hudson Valley Community College's Manufacturing Technology Pathways is designed as a first step for those who want to join the manufacturing workforce, but may not have the time or ability to commit to a full degree or certificate program in Advanced Manufacturing Technology. It will provide students with access to a variety of local manufacturers who seek entry level employees. The Manufacturing Technology Pathways project is partially funded through a grant Center for Economic Growth received from Key Bank. Additional support comes from the Workforce Development Institute of New York, and local manufacturing employers. This is 80-hour intensive bootcamp, offered over two weeks, includes online classes, in-person instruction and hands-on instruction in classrooms and labs at Hudson Valley Community College.

#### **Related Occupational Outlook Information:**

Assemblers and Fabricators (<https://www.bls.gov/ooh/production/assemblers-and-fabricators.htm>)

Machinists and Tool and Die Makers (<https://www.bls.gov/ooh/production/machinists-and-tool-and-die-makers.htm>)

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## Course/Program Offerings

### Mastercam Mill 2D & 3D

Mastercam's comprehensive set of pre-defined toolpaths enable machinists to cut parts efficiently and accurately. This course will provide you with training used for programming Computer Numerical Controlled (CNC) machine tools. You will learn the programming methodology and proper application of cutting tools, and the course also will cover vertical milling and turning equipment.

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### Six Sigma & Lean

Six Sigma and Lean Six Sigma are management approaches designed to improve quality of products or services and to minimize variation and waste. Training and certification is offered for the three major levels of Six Sigma involvement within an organization: Yellow Belt, Green Belt and Black Belt. The courses are designed to simplify the content so you can pass the exams on the first try.

#### **Related Occupational Outlook Information:**

Industrial Production Managers (<https://www.bls.gov/ooh/management/industrial-production-managers.htm>)

Business and Financial Occupations (<https://www.bls.gov/ooh/business-and-financial/home.htm>)

### SolidWorks - Introduction

Introduction to SolidWorks® offers students training in Windows-based 3D mechanical computer-aided drafting (CAD), using parametric modeling. Individuals learn about parametric modeling basics, as well as the software interface, drawing, display controls, editing, drawing aids, and assemblies.

#### **Related Occupational Outlook Information:**

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