

**NORTH MONTCO TECHNICAL CAREER CENTER  
DRAFTING AND DESIGN**

The Design and Drafting program will provide students with the skills that are necessary to be employable in the trade. Throughout the training at NMTCC, students will gradually master techniques in Drafting and Design utilizing ANSI/ASME standards. The course will start with Basic Drafting that includes Orthographic Projection, Auxiliary Views, Section Views, Dimensioning, Fasteners, Axonometric, and other basic drafting skills and will continue with learning how to use many of the latest software packages. These include the latest versions of AutoCAD, Architectural Desktop, Inventor, Revit Architecture and other related software packages.

**What you will learn:**

- Basic drafting techniques including:
  - Orthographic Projection, Auxiliary Views, Section Views, Dimensioning, Fasteners, Axonometric
- AIA, ISO,ASME standards for drafting
- Computer assisted drafting (CAD) techniques
- Mechanical/machine drafting and design
- Architectural drafting and design
- AutoCAD
- Inventor –Solids Modeling
- Architectural Revit
- 3D Printing

**Physical criteria:**

- Manual dexterity
- Strong eye/hand coordination

**Class of 2019 graduation plans:**

- 50% plan to continue their education in this field
- 33% plan to continue their education in another field
- 17% found employment in another field

**Equipment list:**

**(With approximate cost)**

- USB flash drive (\$15-\$30)
- 3” binder, dividers (\$15)
- Activity fee \$20

**Career possibilities:**

- Architectural Drafter
- Civil Drafter
- Electronic Drafter
- Mechanical Drafter
- CAD Technician

**Career possibilities with additional education:**

- Aeronautical Engineer
- Architect
- Chief Design Drafter
- Civil Engineer
- Electrical Engineer
- Mechanical Engineer

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**North Montco Technical Career Center, 1265 Sumneytown Pike, Lansdale, PA 19446  
215-368-1177 \* [www.nmtcc.org](http://www.nmtcc.org)**