

PRECISION MACHINE TECHNOLOGY

INSTRUCTOR BIOGRAPHY

Benjamin Detwiler

Mr. Detwiler attended the Indian Valley High School and studied Computer Aided Drafting and Design at the Mifflin Juniata Career and Technology Center. After finishing high school, he went to Thaddeus Stevens College of Technology where he studied Machine Tool and Computer Aided Manufacturing, graduating Cum Laude. He received an Associate's Degree of Applied Science in Machine Tool and Computer Aided Manufacturing. He is currently studying at Penn State University for his Bachelors Degree in Workforce Education.

Mr. Detwiler has worked in many different machine shops, machining parts for many different industries such as agriculture, landscaping, automotive, aerospace, and much more. Mr. Detwiler continues to work closely with industry.

Mr. Detwiler began his teaching career at CPI in 2010 and looks forward to teaching high school students for many years to come.



A Quote from Mr. Detwiler

"I enjoy sharing my passion for machining. It is great to see the excitement as a student's face lights up when he or she realizes they can take a piece of metal and craft it into an useful precision instrument or part. I like to share the practicality and the creativity that is machining."

FUN FACTS ABOUT MR. DETWILER

He owns an 1890's Reed Metal Lathe which he still uses.

He enjoys building and pulling garden tractors for sport.

He is a local volunteer fireman.

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OUTSIDE CLASSROOM WORK & THINGS YOU'LL NEED



Things you'll need:

- CPI Uniform

Optional Items

- Calculator
- 6 inch rule
- 6 inch calipers
- Allen wrenches

Outside Classroom Work:

Because of the hands-on aspect of machining with specialized equipment, outside classroom work is kept at a minimum. On occasion there might be a programming problem or design that may be able to be finished outside the classroom, but this is the exception rather than the rule.

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certifications



Available Certifications:

National Institute of Metalworking Skills (NIMS)

National Institute of Metalworking Skills is a program that offers many different certifications in various machining categories. First, the student makes a metal part that relates to the category given. This metal part will then be checked by three different machine shops. If the part is correct, an online test will be unlocked. If the student passes the test, he or she will get the certification in that area. Some of the areas include:

- Bench Work and Layout
- Manual Mill
- Manual Lathe between Centers
- Manual Lathe Chucking
- CNC Milling Programing setup & operations
- CNC Lathe Programing setup & operations

Student Cost: Varies