- Schuylkill Technology Center -

(Est. 1968)

MACHINE TRADES TECHNOLOGY COURSE SYLLABUS

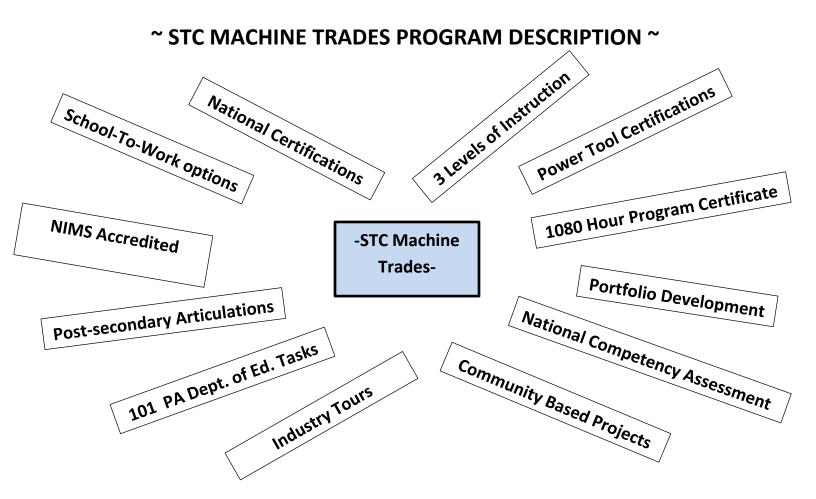
CIP CODE # 48.0501





- STC Machine trades Program:
- ✓ Course Length: 1080 hours
- ✓ 101 Program of Study Tasks
- ✓ 4 Industry Certifications
- ✓ 5 Post-Secondary Articulations

Technology is our middle name !



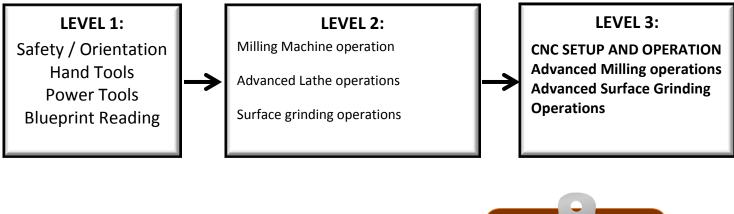


Level 3 Student indicating a vise on Vertical milling machine

(Milling Machine – POS #803)

POS task 803- Select, mount and indicate vise

~ STC MACHINE TRADES PROGAM of STUDY (101 Tasks) ~



~ SUGGESTED PREREQUISITES ~

The following is a list of "suggested" prerequisite courses for a student to consider before entering the STC Machine Trades program.

Drafting	
Microsoft Word	
Microsoft Excel	
Industrial Arts	
First Aid	
Geometry	
Algebra 1	



~ CERTIFICATIONS ~

STC Machine Trades Certificate of Completion NIMS Measurement, Material and Safety NIMS Benchwork and Layout NIMS Milling NIMS Surface Grinding

~ ARTICULATION AGREEMENTS ~

(Post-Secondary schools participating with PDE Machining POS Articulation Agreements)

Lehigh Carbon Community College Westmoreland Community College Johnson College Clarion University Pennsylvania College of Technology Thaddeus Stevens of Technology Delaware County Community College Clarion University of PA

~ STC MACHINE TRADES PROJECTS ~



Level 1	Level 2	Level 3
Identify and use personal protective equipment (PPE).	Read and interpret shop blueprints.	Learn advanced procedures
Measure, layout and cut materials to 1/16".	Measure, layout and cut materials to .010".	Measure, layout and cut to .003".
Safely make various metal projects and tools for use in shop. Learn safe operation of Band Saw, Grinder, Drill Press, and Lathe. NIMS MM&S	Safely operate all shop equipment. Learn advanced use of Lathe and Heat Treating procedures. NIMS Benchwork	Safely operate all shop equipment. Learn setup and operation of CNC. NIMS Milling NIMS Surface Grinding

Level 1 Student uses a File to create a radius. (Bench work – POS #403)





Level 2 Student Polishing work on a lathe (Operating Lathes – POS #713)

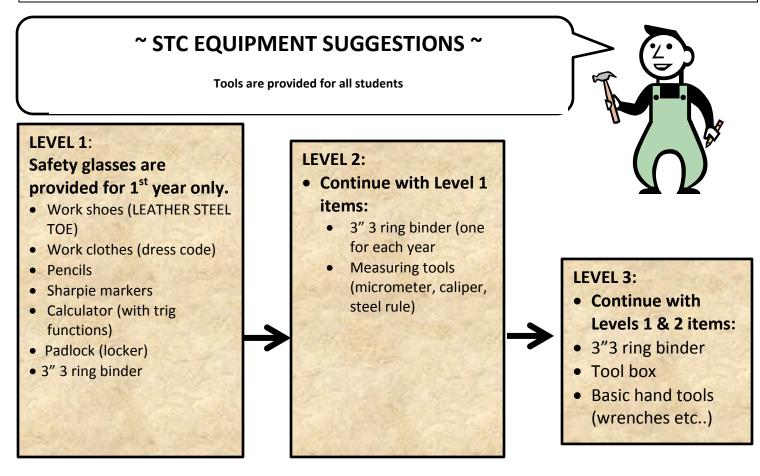
Level 3 Student Making part square using a vise on a surface grinder (Grinding Machines – POS #612)





~STC MACHINE TRADES PROGAM STUDENT RESPONSIBILITIES ~

\rightarrow	→ It is the Machine Trades Student's responsibility to				
1	Read, understand and follow the contents of the STC Student Handbook.				
2	Follow attendance guidelines and absence procedures.				
3	Be prepared with (clear) safety glasses, safety shoes, work shirt and pencil each day.				
4	Follow shop dress codes (work shoes & safety glasses) and school dress codes.				
5	Follow all shop and OSHA safety rules (keeping clear safety glasses on in the shop area).				
6	Use personal protective equipment (PPE), such as ear protection.				
7	Cooperate with others and work as a team member in the shop.				
8	Work with diligence and display initiative in the shop.				
9	Work with a positive attitude which will promote success concerning your career pathway.				
10	Complete all tasks and theory assignments to the best of your ability.				
11	Continually update and enrich your personal portfolio for three semesters.				
12	2 Strive towards achieving Industry related certifications (such as NIMS and NOCTI).				
13	Monitor the workforce both in and outside of the STC program.				
14	Stand on your own two feet and make responsible decisions that affect your career.				
15	15 Respect all fellow students and STC staff members each day.				
STUDENT SIGNATURE: Date:					
PA	ARENT SIGNATURE: Date:				





~ MACHINE TRADES TECHNOLOGY PROGRAM STUDENT

ASSESSMENT ~

STC students will be evaluated in three specific areas: **KNOWLEDGE (30%)**, WORK **ETHIC** (30%), and **SKILL (40%)**.

- STC Machine Trades Program South Campus Assessment Rubric -							
KNOWLEDGE – 30%							
LEARNING GUIDES	IDES Work diligently on modules to completion. Work is neat and correct.						
JOUNAL Completed each day with accurate description of work, complete sentences			1-100				
and neat hand writing							
RELATED JOBS	ATED JOBS Examples: Layout /Hand Projects/ power tools		1-100				
KWL READINGS	KWL READINGS Eight related readings with written reports - (neat & complete).		1-100				
PORTFOLIO	RTFOLIO As per GUIDELINES – DUE on 60th day of 90 day cycle.		1-100				
TESTS	Each POS unit has a test. Use "Test Study Guide" to prepare for tests.		1-100				
WORK ETHIC – 30%							
ATTENDANCE	Good attendance and effort; completes make-up work.						
ATTITUDE	Respectful towards other students, staff, and school property.	10 POINTS PER DAY					
INITIATIVE	Moves on to the next job without being told; does not complain.	Non - excused					
DILLIGENCE	Stays on task until completion / focused on the job.	absences = 0					
COOPERATION	Works effectively with others on a daily basis. Helps others.						
RESPONSIBILITY	Acts mature and is accountable in all areas throughout the day.						
(POS TASK LISTING): SKILL – 40%							
SAFETY	Safety glasses on? Shop safety rules followed? Practices shop safety?		1-100				
USE of MATERIALS	of MATERIALS Properly select, layout, and store materials.		1-100				
USE of TOOLS	JSE of TOOLS Select appropriate tools for job. Uses tools safely. Maintain and store tools.		1-100				
CLEAN-UP			1-100				
TASK/JOB QUALITY Skill: Measurement & layout correct? (Appearance)			1-100				