

# - Schuylkill Technology Center -

(Est. 1968)

## CARPENTRY PROGRAM COURSE SYLLABUS

CIP CODE # 46.0201



*Technology is our middle name !*

### STC CARPENTRY Program:

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

[www.stcenters.org](http://www.stcenters.org)

# ~ STC CARPENTRY PROGRAM DESCRIPTION ~



**Level 1 Student designing an elliptical arch to scale.**

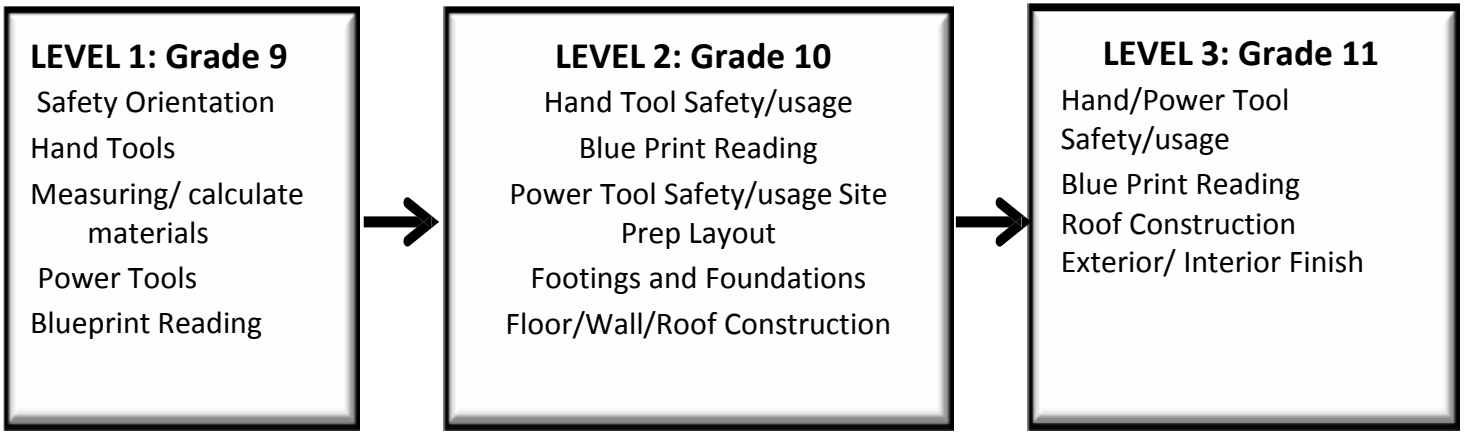


**Level 2 Student building concrete foundation forms.**



**Level 3 Student installing an oak filler strip to finish wall cabinet installation at Ashland Police Dept.**

## ~ STC CARPENTRY PROGRAM of STUDY (111 Tasks) ~



**LEVEL 4: Grade 12**  
 Hand/Power Tool Safety/Usage  
 Blue Print Reading  
 Interior Finish  
 Cabinets  
 Fences/Decks  
 Estimation/ Job Pricing

~ SUGGESTED PREREQUISITES ~  
 The following is a list of "suggested" prerequisite courses for a student to consider before entering the STC Carpentry program.



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



### ~ CERTIFICATIONS ~

- STC Carpentry Certificate of Completion (1080 hours)\*
- HILTI Operator's License (DX 36M)\*
- NOCTI Carpentry Certificate\*
- Home Builder's Institute Certificate\*

(\*Pending student achievement)

### ~ ARTICULATION AGREEMENTS ~

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

- Thaddeus Stevens College of Technology
- Delaware County Community College
- Harrisburg Area Community College
- Commonwealth Technical Institute
- Orleans Technical Institute
- Clarion University of PA Johnson College





## ~ STC CARPENTRY PROJECTS ~

Level 1	Level 2	Level 3
Safely erect metal scaffolding according to OSHA standards.	Build a 6' x 8' foundation form using prefabricated metal forms.	Layout and install an exterior set of stairs.
Read six sets of residential plans and blueprints.	Frame a 6' x 8' structure with 16" wall framing and 24" roof framing.	Layout, cut and install vinyl siding and coil stock components.
Layout and build a 24' x 40' house using 1" = 1'- 0" scale.	Layout and install asphalt roofing shingles.	Layout, install and finish drywall.

**Level 1 Student  
installing pump jack  
scaffolding.  
(Safety/Occupational  
Orientation – POS #107)**



**Level 2 Student using power  
miter saw to cut cripple  
studs for a wall frame.  
(Wall Framing – POS #802)**



**Level 3 Student  
installing 2' x 4' tile in a  
suspended ceiling grid.  
(Interior Finish – POS #1104)**



## ~ STC CARPENTRY PROGRAM STUDENT RESPONSIBILITIES ~

→ ***It is the Carpentry 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, tape measure, 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	to use personal protective equipment (PPE), such as ear protection and dust masks.
7	cooperate with others and work as a team member in the shop and on the job site.
8	work with diligence and display initiative in the shop, and on the job site.
9	work with a positive attitude which will promote success concerning your career pathway.
10	complete all Carpentry tasks and theory assignments to the best of your ability.
11	continually update and enrich your personal portfolio for three semesters.
12	strive towards achieving Industry related certifications (such as NOCTI & and HILTI).
13	monitor the construction workforce both in and outside of the STC Carpentry program.
14	stand on your own two feet and make responsible decisions that affect your career.
15	<b>respect all students and STC staff members each day.</b>

**STUDENT SIGNATURE:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**PARENT SIGNATURE:** \_\_\_\_\_ **Date:** \_\_\_\_\_

## ~ STC CARPENTRY EQUIPMENT SUGGESTIONS ~



**LEVEL 1:**  
**Safety glasses are provided for 1<sup>st</sup> year only.**

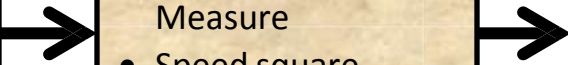
- Work shoes (hard sole)
- Work clothes (dress code)
- Pencils
- 6 ft. Folding rule
- 16 oz. Claw hammer
- Combination square
- 3/4" Wood chisel
- Builder's calculator
- Padlock (locker)

**LEVEL 2:**

- Continue with Level 1 items:
- Carpenter's pencils
- Tool belt
- 25 ft. Tape Measure
- Speed square
- Chalk line
- Cat's paw
- Builder's calculator

**LEVEL 3:**

- Continue with Levels 1 & 2 items:
- Stair gauges
- 2/32" Nail set
- 4 in 1 Screwdriver
- Aviation Snips



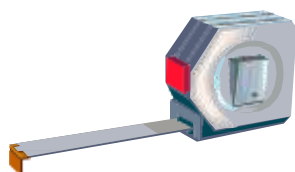
## ~ STC CARPENTRY PROGRAM STUDENT ASSESSMENT ~

STC Carpentry students will be evaluated in three specific areas: **KNOWLEDGE (30%)**, **WORK ETHIC (30%)**, and **SKILL (40%)**. A daily grade under the “Work Ethic” category will account for a maximum of ten points per day. See the “Assessment Rubric” below for examples of evaluation.

<b>- STC Carpentry Program North Campus Assessment Rubric -</b>		
<b>KNOWLEDGE – 30%</b>		
LEARNING GUIDES	Work diligently on modules to completion. Work is neat and correct.	1-100
DRAWINGS	Drawings are neat, complete, and on time.	1-100
RELATED JOBS	Examples: Building Layout / Estimating / Stair Layout / Roof Rafter Layout	1-100
KWL READINGS	Eight construction related readings with written reports - (neat & complete).	1-100
PORTFOLIO	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
<b>WORK ETHIC – 30%</b>		
ATTENDANCE	Good attendance and effort; completes make-up work.	<b>10 POINTS PER DAY</b> Non - excused absences = 0
ATTITUDE	Respectful towards other students, staff, and school property.	
INITIATIVE	Moves on to the next job without being told; does not complain.	
DILLIGENCE	Stays on task until completion / focused on the job.	
COOPERATION	Works effectively with others on a daily basis. Helps others.	
RESPONSIBILITY	Acts mature and is accountable in all areas throughout the day.	
<b>(POS 101 TASK LISTING): SKILL – 40%</b>		
SAFETY	Safety glasses on? Shop safety rules followed? Practices job site safety?	1-100
USE of MATERIALS	Properly select, layout, and store building materials.	1-100
USE of TOOLS	Select appropriate tools for job. Uses tools safely. Maintain and store tools.	1-100
CLEAN-UP	Job site in order? Floors swept? Tools and materials properly stored?	1-100
TASK/JOB QUALITY	Skill: Measurement & layout correct? (Square - Level - Plumb - Appearance)	1-100

“The construction industry is continually searching for skilled employees. Miller Bros. Construction is fortunate to have an educational facility like STC in the area providing eager students the skills and training needed to make the transition between education and a specific construction related occupation.”

**Beau Brusio, M.B.C.I. Project Manager / 1999 STC Alumni**



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