

STC Carpentry Level 1 Syllabus

Spring 2020



Instructor Information

Instructor

Mr. Kintzel

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Website containing homework
and test information

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<https://www.stcenters.org/site/Default.aspx?PageID=745>

General Information:

Description

Carpentry level 1 is the Core of the carpentry program. Students will learn safety, tool usage, materials, fasteners and simple print reading.

Expectations and Goals

Students are expected to read the assigned chapters in the textbook, complete the worksheets, participate during theory class and work on Task Assessments as assigned. Only by complete involvement will the student benefit from carpentry curriculum. Students will be given learning guides which give an outline of the material, but they do not serve as a substitute for the textbook.

Course Materials:

Required Materials

3" three-ring binder to keep learning guides organized

#2 pencils for completing homework and classwork

Safety toe work boots

25' tape measure

Required Text (Issued to student by Instructor)

Carpentry - Koel

Residential Construction Academy – Basic Principles for Construction – Huth

Residential Construction Academy – Carpentry - Vogt

Course Schedule :

Week	Topic/Task#	Reading	Assignments
Week 1	Construction Safety/101	Huth – Chapters 1 & 2, Ethic Koel – Chapter 22 Learning Guide	-vocabulary -chapter review -worksheet -quiz
Week 2	Construction Safety/101	Huth – Chapter 3, PPE Koel – Chapter 20 Learning Guide	-vocabulary -chapter review -worksheet <u>-task assessment</u> -quiz
Week 3	OSHA/105	Huth – Chapter 3 Learning Guide	-worksheet -quiz
Week 4	OSHA/105	Huth – Chapter 3 Learning Guide	-worksheet <u>-task assessment</u> -quiz
Week 5	Safety Data Sheets/104	Huth – Chapter 3 Learning Guide	-worksheet -task assessment <u>-unit test</u>
Week 6	Construction Materials/POS	Koel – Chapter 3,4 and 5 Vogt – Chapter 4 Learning Guide	-vocabulary -chapter review -worksheet -quiz
Week 7	Construction Materials/POS	Koel – Chapter 6 & 7 Vogt – Chapter 4 Learning Guide	-vocabulary -chapter review -worksheet -quiz <u>-task assessment</u>
Week 8	Construction Fasteners/POS	Huth – Chapter 14 Koel – Chapter 8 Vogt – Chapter 5 Learning Guide	-vocabulary -chapter review -worksheet -quiz

Week	Topic/Task#	Reading	Assignments
Week 9	Construction Fasteners/POS	Huth – Chapter 14 Koel – Chapter 8 Vogt – Chapter 5 Learning Guide	-vocabulary -chapter review -worksheet <u>-task assessment</u> <u>-unit test</u>
Week 10	Hand Tools/201-210	Huth – Chapter 12 Koel – Chapters 9, 10 and 11 Vogt – Chapter 1 Learning Guide	-vocabulary -chapter review -worksheet -quiz
Week 11	Hand Tools/201-210	Huth –Chapter 12 Koel – Chapters 12 and 13 Vogt – Chapter 1 Learning Guide	-vocabulary -chapter review -worksheet <u>-task assessments</u> <u>-unit test</u>
Week 12	Portable Power Tools/303	Huth – Chapter 13 Koel – Chapters 14 and 16 Learning Guide	-vocabulary -chapter review -worksheet <u>-safety tests</u> <u>-task assessments</u>
Week 13	Portable Power Tools/303	Huth – Chapter 13 Koel – Chapter 17 Learning Guide	-vocabulary -chapter review -worksheet <u>-safety tests</u> <u>-task assessment</u>
Week 14	Pneumatic Tools/302	Vogt – Chapter 2 pages 42-46 Koel – Chapter 18 Learning Guide	-vocabulary -chapter review -worksheet <u>-safety tests</u> <u>-task assessment</u>
Week 15	Stationary Power Tools/301	Vogt – Chapter 3 Koel – Chapter 15 Learning Guide	-vocabulary -chapter review -worksheet <u>-safety tests</u>

Week	Topic/Task#	Reading	Assignments
Week 16	Stationary Power Tools/301	Vogt – Chapter 3 Koel – Chapter 15 Learning Guide	-worksheet - <u>safety tests</u> - <u>task assessments</u>
Week 17	Print Reading/401-410	Huth – Chapters 16, 17 and 18 Vogt – Chapter 6 pages 115-124 Koel – Chapters 23, 24, 25 and 26 Learning Guide	-vocabulary -chapter review -worksheet - <u>task assessments</u> -quiz
Week 18	Print Reading/401-410	Huth – Chapters 19, 20, 21 and 22 Koel – Chapters 27 through 31 Learning Guide	-vocabulary -chapter review -worksheet - <u>task assessments</u> - <u>unit test</u>

POS Task List for Level 1:

100	SAFETY/OCCUPATIONAL ORIENTATION - LEVEL 1
101	Follow basic, lab and construction industry safety practices and procedures.
102	RESERVED
103	RESERVED
104	Follow procedures in Safety Data Sheets (SDS) system.
105	Identify and follow all OSHA safety standards at the construction site.
106	RESERVED
107	RESERVED
200	HAND TOOLS - LEVEL 1
201	Use and maintain small hand tools.
202	Use and maintain sawing tools.
203	Use and maintain fastening tools.
204	Use and maintain measuring tools.
205	Use and maintain cutting tools.
206	RESERVED
207	Use and maintain ladders.
208	Use and maintain finishing tools.
209	RESERVED
210	Construct scaffolding.
300	POWER TOOLS - LEVEL 1
301	Use and maintain stationary electric power tools.
302	Use and maintain pneumatic tool systems.
303	Use and maintain portable electric power tools.
304	RESERVED
305	RESERVED
400	BLUEPRINTS READING - LEVEL 1
401	Interpret blueprints.
402	Interpret and comprehend standard symbols and abbreviations.
403	Interpret building specifications.
404	Interpret a plot plan.
405	Interpret a foundation plan.
406	Interpret elevation plans.
407	Interpret details and section views.
408	Interpret floor, wall and roof framing plans.
409	Interpret building and zoning codes.
410	Interpret Americans with Disabilities Act (ADA) regulations.

Duty Roster :

Daily clean up begins at 2:10 p.m. unless changed by the Instructor or substitute Instructor.

- 1) All students must put their own projects away.
- 2) All students must put their own tools, nails, and screws they were using away in their proper places in the tool room or supply cabinets.
- 3) All students must put their off-falls neatly in the proper storage areas or if they can no longer be used, put them in the yellow dumpster. Rough clean your work area.
- 4) After all tools are in their proper places in the tool room, the Tool Room Foreman can start the final check of the day. The Tool Foreman is responsible for keeping the tool room cleaned organized daily.
- 5) After all benches are cleared of projects and tools, the bench detail can start to clean the benches and close vises.
- 6) After all machines are no longer being used that day the machine detail can start their final clean up duties.
- 7) During the work day, all students must rough clean and put all off falls in the proper storage areas after they finish any work on machinery, work benches, and sawhorses.
- 8) After machines and benches are cleaned off the floor detail can start to sweep the floor for the day with the mop detail to follow.

PROCEDURES FOR CARPENTRY SHOP

Upon arrival at the Career Center, depart from the bus, go directly to the cafeteria unless it is after 8:00, then report to the Carpentry Shop. Upon arrival in the Carpentry Shop please log in your time on the clipboard.

When entering the Carpentry Shop, go directly to your locker and deposit all shoes, clothing, jewelry, food, drink, and books not required for Carpentry. Change into proper attire with notebooks, tools, and equipment, and go directly to your assigned seat or work area. (Students may sign out to go to the bathroom to change clothes.)

Students must sign out, using proper passes to go to the bathroom - Lav. pass; other areas of the school - Hall pass; to work in other areas of the school Work pass.

Attendance will be taken at 8:20 a.m. with the morning announcements and the Pledge to the Flag. At this time, the students will perform their assigned duty roster tasks and report directly to their assigned work stations with their tools, equipment, materials, project, notebooks, and modules ready to start work. This provides safer work areas.

It is the student's responsibility to keep an eye on the clock and to listen for the bell and to report to Social Studies class on time. If a student is late or misses Social Studies class without the Shop Instructor and Social Studies Instructors' permissions, an incident report will be filled out and an appropriate assignment or discipline will be given.

Students must go directly from Carpentry to Social Studies class and Social Studies class to Carpentry with no stops in between (bathroom, other shops, office, etc.) The same practice also goes at lunch time. You go directly from Carpentry to the cafeteria, and cafeteria to Carpentry being led by the Instructor.

The students must follow all safety rules and regulations set up for everyone's safety and protection 100% of the day in every area of the shop, balcony, tool-room, and classroom unless instructed differently by the Instructor in charge of the shop.

SAFETY RULES CARPENTRY SHOP

1. No smoking, chewing or vaping
2. No running or horseplay in the shop.
3. No throwing of tools, materials, or other objects.
4. No fighting.
5. Positively no cursing.
6. Always keep a cool head.
7. When in doubt, ask.
8. All cuts and splinters must first receive first aid and be reported.
9. When leaving the shop, you must use the proper passes.
10. Safety glasses or goggles must be worn at all times.
11. Hard hats must be worn at all times.
12. Torn clothing is prohibited. It is a hazard.
13. Clothing must be buttoned and tucked in at all times.
14. Tan carpenter's pants and tan shirt are HIGHLY recommended.
15. Clothing with offensive drawings and/or words is prohibited.
16. Work boots that are properly tied must be worn at all times.
17. All jewelry is prohibited. They are safety hazards. No rings, bracelets, earrings, necklaces.
18. Use proper tools and materials.
19. Tools and materials will always be returned to their proper places.
20. Nails, screws, etc. will not be left lying on the floor, benches, equipment, and/or projects.
21. NEVER use a power tool without permission.
22. NEVER use a power tool as a work bench.
23. Positively no hitting cold steel against cold steel.
24. Work at your own station.
25. Concentrate on your own work.
26. Watch out for fellow workers.

CARPENTRY SCORING RUBRIC – Framing Standards

NAME _____ DATE _____

TASK#

Element Scored	Score 4	Score 3	Score 2	Score 1
1. Layout	± 1/32"	± 1/16" of plans or specification	± 1/8"	Over 1/8"
2. Cutting	± 1/16"	± 1/8" of plans or specification	± 1/4"	Over 1/4"
3. Location of features	± 1/16"	± 1/8" of specifications	± 1/4"	Over 1/4"
4. Level	± 1/8"	± 1/4" in eight (8) linear feet	± 1/2"	Over 1/2"
5. Plumb	± 1/8"	± 1/4" in eight (8) linear feet	± 1/2"	Over 1/2"
6. Foundation square	± 1/4"	± 1/2" for every 50' linear feet corner to corner diagonal measurement	± 3/4"	Over 3/4"
7. Framing wall square	± 1/16"	± 1/8" for every 10' linear feet of diagonal measurement	± 1/4"	Over 1/4"
8. Straight	± 1/8"	± 1/4" maximum curve or bow for every 10 linear feet of material	± 1/2"	Over 1/2"
9. Square-ness of opening	± 1/16"	± 1/8" as pulled across diagonal	± 1/4"	Over 1/4"
10. Meets applicable code specifications	Exceeds code	Meets code	N/A	Does not meet code

CARPENTRY SCORE SHEET – Framing Standards

NAME _____ DATE _____

TASK#

ELEMENTS BEING SCORED	SCORE
1. Layout	
2. Cutting	
3. Location of features	
4. Level	
5. Plumb	
6. Foundation square	
7. Framing wall square	
8. Straight	
9. Square-ness of opening	
10. Meets applicable code specifications	
TOTAL NUMBER OF POINTS:	
DIVIDE BY THE NUMBER OF ELEMENTS SCORED:	
AVERAGE:	
MULTIPLY BY:	2.5
EARNED SCORE:	