

STC Carpentry Level 3 Syllabus

Spring 2020



Instructor Information

Instructor

Mr. Kintzel

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Website containing homework
and test information

Email/Website

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

General Information:

Description

Carpentry level 3 provides the student with the fundamentals of finishing the exterior and interior of a house. The program starts with drying in the house by applying roofing paper and shingles. Students then learn how to install windows, doors and vinyl siding. Once the exterior of the house is finished students learn how to insulate the walls, install and finish drywall and install trim.

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	Roofing/910, 911 and 912 Roofing paper Shingles Cap shingles	Vogt – Chapter 14 Koel – Chapter 55 Learning Guide	-vocabulary -chapter review -worksheet <u>-task assessments</u> <u>-unit test</u>
Week 2	Exterior Finish/1003 and 1005 House wrap Windows	Vogt – Chapter 13 Koel – Chapter 56 Learning Guide	-vocabulary -chapter review -worksheet <u>-task assessments</u> -quiz
Week 3	Exterior Finish/1004 and 1006 Doors Vinyl siding accessories	Vogt – Chapter 13 and 15 Koel – Chapter 56 Learning Guide	-vocabulary -chapter review -worksheet <u>-task assessments</u> -quiz
Week 4	Exterior Finish/1006 Siding	Vogt – Chapter 15 Koel – Chapter 57 Learning Guide	-worksheet <u>-task assessments</u> -quiz
Week 5	Exterior Finish/1007 and 1008 Soffit, Fascia and Gutter	Vogt – Chapter 15 Koel – Chapter 57 Learning Guide	-worksheet <u>-task assessments</u> -quiz
Week 6	Exterior Finish/1009 Exterior stairs	Vogt – Chapter 19 Koel – Chapter 63 Learning Guide	-vocabulary -chapter review -worksheet <u>-task assessments</u> -quiz
Week 7	Exterior Finish/1009 Exterior stairs	Vogt – Chapter 19 Koel – Chapter 64 Learning Guide	-worksheet <u>-task assessment</u> <u>-unit test</u>

Week	Topic/Task#	Reading	Assignments
Week 8	Interior Finish/1111 Insulation	Vogt – Chapter 16 Koel – Chapter 51 and 52 Learning Guide	-vocabulary -chapter review -worksheet -<u>task assessments</u> -quiz
Week 9	Interior Finish/1103 Drywall	Vogt – Chapter 17 Koel – Chapter 58 Learning Guide	-vocabulary -chapter review -worksheet -<u>task assessment</u> -quiz
Week 10	Interior Finish/1104 Suspended Ceiling	Vogt – Chapter 18 Koel – Chapter 58 Learning Guide	-vocabulary -chapter review -worksheet -<u>task assessment</u> -quiz
Week 11	Interior Finish/1104 Tile Ceiling	Vogt – Chapter 18 Koel – Chapters 58 Learning Guide	-worksheet -<u>task assessments</u> -quiz
Week 12	Interior Finish/1105 Interior Doors	Vogt – Chapter 13 Koel – Chapter 59 Learning Guide	-worksheet -<u>task assessments</u> -quiz
Week 13	Interior Finish/1106 and 1107 Door and Window trim	Vogt – Chapter 18 Koel – Chapter 61 Learning Guide	-worksheet -<u>task assessment</u> -quiz
Week 14	Interior Finish/1109 and 1108 Baseboard and Flooring	Vogt – Chapter 18 Koel – Chapter 62 Learning Guide	-worksheet -<u>task assessments</u> -quiz
Week 15	Interior Finish/1110 Interior Stairs	Vogt – Chapter 19 Koel – Chapter 64 Learning Guide	-worksheet -<u>task assessments</u> -quiz

Week	Topic/Task#	Reading	Assignments
Week 16	Interior Finish/1110 Interior Stairs	Vogt – Chapter 19 Koel – Chapter 64 Learning Guide	-worksheet -<u>task assessment</u> -<u>unit test</u>
Week 17	Estimation/1201, 1202 and 1207	Learning Guide	-worksheet -<u>task assessment</u> -quiz
Week 18	Estimation/ 1203, 1204, 1205 and 1206	Learning Guide	-worksheet -<u>task assessment</u> -<u>unit test</u>

POS Task List for Level 3:

910	Layout and install roofing paper.
911	Layout and install roofing materials.
912	Layout and install capping.
1000	EXTERIOR FINISH
1001	RESERVED
1002	RESERVED
1003	Install house wrap.
1004	Install exterior doors.
1005	Install windows.
1006	Layout and install siding.
1007	Layout and install soffits and fascias.
1008	Layout and install gutters and downspouts.
1009	Layout and install exterior stair systems.
1100	INTERIOR FINISH
1101	RESERVED
1102	RESERVED
1103	Layout, install and finish drywall.
1104	Layout and install suspended and tile ceilings.
1105	Layout and install interior doors.
1106	Layout and install door trim, casings and hardware.
1107	Layout and install window trim, casings and hardware.
1108	Layout and install baseboard and molding.
1109	Layout and install flooring materials.
1110	Layout and install interior stair systems.
1111	Install various types of insulation.
1200	ESTIMATION
1201	Estimate the cost and amount bricks and blocks needed to complete a given task.
1202	Estimate the cost and amount of concrete needed to complete a given task.
1203	Estimate the cost and amount of materials to finish an exterior wall.
1204	Estimate the cost and amount of materials to finish an interior wall.
1205	Estimate the cost and amount of materials to construct a finished floor.
1206	Estimate the cost and amount of materials to construct a finished roof.
1207	Estimate the cost and amount of materials to install siding for a house.

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.

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- 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.
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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	± ¼"	Over ¼"
3. Location of features	± 1/16"	± 1/8" of specifications	± ¼"	Over ¼"
4. Level	± 1/8"	± ¼" in eight (8) linear feet	± ½"	Over ½"
5. Plumb	± 1/8"	± ¼" in eight (8) linear feet	± ½"	Over ½"
6. Foundation square	± ¼"	± ½" for every 50' linear feet corner to corner diagonal measurement	± ¾"	Over ¾"
7. Framing wall square	± 1/16"	± 1/8" for every 10' linear feet of diagonal measurement	± ¼"	Over ¼"
8. Straight	± 1/8"	± ¼" maximum curve or bow for every 10 linear feet of material	± ½"	Over ½"
9. Square-ness of opening	± 1/16"	± 1/8" as pulled across diagonal	± ¼"	Over ¼"
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:	