BDT212 Carpentry II Syllabus

Course Information

Credits
4
Campus
Washburn Institute of Technology
Address
5724 SW Huntoon
City/State/Zip
Topeka, Kansas 66604
Office Fax
785-273-7080

Description
Students will learn the techniques of framing and finishing. The students will have the opportunity to become familiar with roofing application, thermal and moisture protection, exterior finishing, commercial drawings, and cold-formed steel framing. This will follow the NCCER modules for Carpentry Level Two.

Textbooks

Student Learning Outcomes:
A. Communicate effectively
B. Integrate technology
C. Learn effectively
D. Demonstrate cooperative teamwork skills
E. Apply safety in the workplace
F. Think critically and creatively
G. Demonstrate responsible work ethics

Competencies
1. Recognize the difference between commercial and residential construction drawings.
2. Identify basic keys, abbreviations, and other references contained in a set of commercial drawings.
3. Accurately read a set of commercial drawings.
4. Calculate the floor area of each room in a floor plan.
5. Identify the materials and methods used in roofing.
6. Demonstrate the safety requirements for roof jobs.
7. Install fiberglass and/or wood shingles on gable and hip roofs.
8. Close up a valley using fiberglass and/or wood shingles.
9. Demonstrate how to make various roof projections watertight when using fiberglass and/or wood shingles.
10. Complete the proper cuts for a main and hip ridge caps using fiberglass and/or wood shingles.
11. Install main and hip ridge caps using fiberglass and/or wood shingles.
12. Calculate the required amounts of insulation for a structure.
13. Install selected vapor barriers.
15. Install selected common cornices.
16. Demonstrate lap and panel siding estimating methods.
17. Install three types of siding.
18. Identify the components of a steel framing system.
19. Demonstrate the ability to build back-to-back, box, and L-headers.
20. Lay out a steel stud structural wall with openings to include bracing and blocking.
21. Install a steel stud structural wall with openings to include bracing and blocking.
22. Lay out a steel stud non-structural wall with openings to include bracing and blocking.
23. Install a steel stud non-structural wall with openings to include bracing and blocking.
24. Select the proper fasteners required for a specific drywall installation.
25. Select the type and thickness of drywall required for a specific installation.
26. Install gypsum drywall on steel studs.
27. Properly finish drywall using hand tools.
28. Recognize various types of problems that occur in drywall finishes.
29. Identify the causes and correct methods for solving each type of drywall finishing problems.
30. Patch damaged drywall.
31. Demonstrate the installation procedures for placing various door jams and frames in different types of interior partitions.
32. Demonstrate the installation procedure for various interior door hardware.
33. Demonstrate the procedure for placing and hanging various doors.
34. Install selected suspended ceilings.
35. Make coped joint cuts using a coping saw.
36. Install interior trim for door trim, window trim, base trim, and ceiling trim.
37. Lay out factory made cabinets, countertops, and back splashes.
38. Build a cabinet from a set of drawings.
39. Install plastic laminate on a countertop core.

**Guidelines for Success**

**Assessment Plan**
Assessment is an integral part of the educational process at Washburn Tech and accurate feedback is an important tool in continuously improving the institution’s technical programs. Students can expect to participate in assessment activities prior to entry into programs, within specific courses and following program completion for specific fields of study.

**Grading Rationale and Grading Scale**

100% - 89% = A
88% - 79%  = B
78% - 69%  = C
68% - 59%  = D
58% & Below = F

40% - Participation = Attendance, Tardies, Work Attire, Textbook, Tools, Behavior, Clean-up
30% - Daily Quizzes & Assignments
20% - Performance Assessments (Individual Evaluations)
10% - NCCER Accrediting Exams

Attendance
Classroom attendance is required. Material missed must be made up with instructor.

Disability
The Special Support Services (SSS) Office is responsible for assisting in arranging accommodations and
for identifying resources at Washburn Institute of Technology for persons with disabilities. Qualified
students with disabilities MUST register and provide documentation with the office to be eligible for
services. New requests for accommodations should be submitted two months or more prior to the date
services should begin; however, contact the SSS Office as soon as a need may arise. Depending on the
accommodation request, four to eight week lead time may be needed for timely and effective provision
of services. SSS coordinates and assist in arranging services it deems appropriate of eligible students on
a case-by-case basis.

If you are a student with a disability that may substantially limit your ability to participate in this class
and believe you will need accommodations, it is your responsibility to contact:

Special Support Services Coordinator
Phone: 785-228-6356
E-Mail: ssscoordinator@washburn.edu