

CABINETMAKING 1, 2, 3, 4
COURSE CODES: 6080, 6081, 6082, 6083

COURSE DESCRIPTION: In the Cabinetmaking program, students acquire workshop and tool safety and employability skills as they practice reading and later interpreting blueprints; estimating and selecting materials; cutting and shaping stock; assembling, fastening, and installing components; and finishing surfaces. They also learn to install interior finishes, apply wood veneers and plastic laminates, finish surfaces, and transport and install cabinets. The technical, problem-solving, leadership, and creative skills learned in Cabinetmaking can be applied in industries well beyond construction trades and professions and can prepare students for lifelong learning and success.

OBJECTIVE: Given the necessary equipment, supplies, and facilities, the student will be able to successfully complete all of the following core standards for a course which grants one unit of credit.

RECOMMENDED GRADE LEVEL: 10-12

COMPUTER ACCESSS REQUIRED: 1:1

PREREQUISITE: None

RECOMMENDED MAXIMUM ENROLLMENT: 24

CREDITS 1-3 Carnegie units per course (code); dependent upon school's schedule (1 = 120 hours, 2 = 240 hours, 3 = 360 hours)

RESOURCES: [MySCTextbooks](#)

A. SAFETY

Effective professionals know the academic subject matter, including safety as required for proficiency within their area. They will use this knowledge as needed in their role. The following accountability criteria are considered essential for students in any program of study.

1. Review school safety policies and procedures.
2. Review classroom safety rules and procedures.
3. Review safety procedures for using equipment in the classroom.
4. Identify major causes of work-related accidents in office environments.
5. Demonstrate safety skills in an office/work environment.

B. STUDENT ORGANIZATIONS

Effective professionals know the academic subject matter, including professional development, required for proficiency within their area. They will use this knowledge as needed in their role. The following accountability criteria are

considered essential for students in any program of study.

1. Identify the purpose and goals of a Career and Technology Student Organization (CTSO).
2. Explain how CTSOs are integral parts of specific clusters, majors, and/or courses.
3. Explain the benefits and responsibilities of being a member of a CTSO.
4. List leadership opportunities that are available to students through participation in CTSO conferences, competitions, community service, philanthropy, and other activities.
5. Explain how participation in CTSOs can promote lifelong benefits in other professional and civic organizations.

C. TECHNOLOGY KNOWLEDGE

Effective professionals know the academic subject matter, including the ethical use of technology as needed in their role. The following accountability criteria are considered essential for students in any program of study.

1. Demonstrate proficiency and skills associated with the use of technologies that are common to a specific occupation.
2. Identify proper netiquette when using e-mail, social media, and other technologies for communication purposes.
3. Identify potential abuse and unethical uses of laptops, tablets, computers, and/or networks.
4. Explain the consequences of social, illegal, and unethical uses of technology (e.g., piracy; cyberbullying, illegal downloading; licensing infringement; inappropriate uses of software, hardware, and mobile devices in the work environment).
5. Discuss legal issues and the terms of use related to copyright laws, fair use laws, and ethics pertaining to downloading of images, photographs, documents, video, sounds, music, trademarks, and other elements for personal use.
6. Describe ethical and legal practices of safeguarding the confidentiality of business-related information.
7. Describe possible threats to a laptop, tablet, computer, and/or network and methods of avoiding attacks.

D. PERSONAL QUALITIES AND EMPLOYABILITY SKILLS

Effective professionals know the academic subject matter, including positive work practices and interpersonal skills, as needed in their role. The following accountability criteria are considered essential for students in any program of study.

1. Demonstrate punctuality.
2. Demonstrate self-representation.
3. Demonstrate work ethic.
4. Demonstrate respect.
5. Demonstrate time management.
6. Demonstrate integrity.

7. Demonstrate leadership.
8. Demonstrate teamwork and collaboration.
9. Demonstrate conflict resolution.
10. Demonstrate perseverance.
11. Demonstrate commitment.
12. Demonstrate a healthy view of competition.
13. Demonstrate a global perspective.
14. Demonstrate health and fitness.
15. Demonstrate self-direction.
16. Demonstrate lifelong learning.

E. PROFESSIONAL KNOWLEDGE

Effective professionals know the academic subject matter, including positive work practices and interpersonal skills, as needed in their role. The following accountability criteria are considered essential for students in any program of study.

1. Demonstrate effective speaking and listening skills.
2. Demonstrate effective reading and writing skills.
3. Demonstrate mathematical reasoning.
4. Demonstrate job-specific mathematics skills.
5. Demonstrate critical-thinking and problem-solving skills.
6. Demonstrate creativity and resourcefulness.
7. Demonstrate an understanding of business ethics.
8. Demonstrate confidentiality.
9. Demonstrate an understanding of workplace structures, organizations, systems, and climates.
10. Demonstrate diversity awareness.
11. Demonstrate job acquisition and advancement skills.
12. Demonstrate task management skills.
13. Demonstrate customer-service skills.

F. APPLYING WOOD VENEERS AND PLASTIC LAMINATES

Effective cabinetmakers demonstrate appropriate skills in applying wood veneers and plastic laminates as needed in their role. The following accountability criteria are considered essential for students in the cabinetmaking program of study.

1. Apply adhesives.
2. Apply edge banding.
3. Apply laminate to core.
4. Apply wood edges.
5. Cut plastic to size.
6. Fit plastic laminate joints (plane joints).
7. Trim edges.

G. ASSEMBLING, FASTENING, AND INSTALLING COMPONENTS

Effective cabinetmakers demonstrate appropriate skills in assembling, fastening, and installing components as needed in their role. The following accountability criteria are considered essential for students in the cabinetmaking program of study.

1. Apply clamping devices (assemble clamping devices).
2. Assemble drawers.
3. Assemble ends, back, bracing, and face frame.
4. Assemble face frame.
5. Assemble joint.
6. Assemble panel door (assemble panels).
7. Attach molding/trim.
8. Fasten parts with nails.
9. Fasten parts with screws.
10. Fasten parts with staples.
11. Fasten top to casework.
12. Glue boards edge to edge.
13. Install catches.
14. Install doors.
15. Install drawer rail and guides.
16. Install hinges.
17. Install pulls and knobs.
18. Install shelves.
19. Install track and slide for sliding doors.
20. Reinforce joints with block/dowel.

H. CUTTING AND SHAPING COMPONENTS

Effective cabinetmakers demonstrate appropriate skills in cutting and shaping components as needed in their role. The following accountability criteria are considered essential for students in the cabinetmaking program of study.

1. Cut butt joint.
2. Cut counter top.
3. Cut dado/rabbet joint.
4. Cut doors.
5. Cut doweled joint.
6. Cut drawer guides and runners (rails).
7. Cut drawer front, sides, back, and bottom.
8. Cut ends, back, and interior bracing.
9. Cut face frame.
10. Cut miter joints.
11. Cut molding/trim.
12. Cut mortise and tenon joints.
13. Cut out for sink.

14. Cut frames and panels.
15. Cut shelving.
16. Cut spline joints.
17. Cut tongue and groove joints.
18. Edge (shape) counter top.
19. Plane stock.
20. Square solid stock.

I. DESIGNING AND LAYING OUT

Effective cabinetmakers demonstrate appropriate skills in designing and laying out plans as needed in their role. The following accountability criteria are considered essential for students in the cabinetmaking program of study.

1. Determine materials from a blueprint.
2. Draw detailed plans.
3. Estimate labor and material cost.
4. Sketch shop plans.

J. FINISHING SURFACES

Effective cabinetmakers demonstrate appropriate skills in finishing surfaces as needed in their role. The following accountability criteria are considered essential for students in the cabinetmaking program of study.

1. Apply lacquers.
2. Apply paints.
3. Apply stains.
4. Apply varnishes/polyurethane.
5. Apply wood filler to nail or screw holes.
6. Clean surfaces.
7. Remove excess glue.
8. Sand surfaces.
9. Swell dents.

K. PERFORMING ADMINISTRATION FUNCTIONS

Effective cabinetmakers demonstrate appropriate skills in performing administration functions as needed in their role. The following accountability criteria are considered essential for students in the cabinetmaking program of study.

1. Assemble data for bookkeeping service.
2. Charge sales to customers' accounts.
3. Conduct cash sales.
4. Demonstrate cabinet types.

5. Discharge employee.
6. Interview applicants for employment.
7. Order stock.
8. Orient new employees.
9. Pay accounts payable.
10. Prepare bank deposits.
11. Prepare customer billing.
12. Prepare employee payroll.
13. Reconcile bank statement.
14. Schedule work assignments.
15. Set up work stations.
16. Take inventory.

L. TRANSPORTING AND INSTALLING CABINETS

Effective cabinetmakers demonstrate appropriate skills in transporting and installing cabinets as needed in their role. The following accountability criteria are considered essential for students in the cabinetmaking program of study.

1. Fasten cabinet to wall.
2. Trim cabinets (fit and trim base cabinets).
3. Prepare cabinets for hauling.