

Advanced Woods

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Content	Skills	Learning Targets	Standard	Assessment	Resources & Technology
<p>CEQ: How to build a cabinet set or complex furniture?</p> <p>UEQ: <i>What is a drawing?</i> </p> <p>A: Drawing types A1. Three view A1: Detail drawing A2: Cabinet Oblique A3: Solid model drawing</p>	<p>A: Drawing types A1: Draw a three view drawing of project. A2: Draw details of drawers. A2: Draw a cabinet oblique of project. A3: Draw with computer a solid model of project.</p>	<p>A: Drawing types A1: I can draw a 3 view drawing of my project. A2: I can draw a detail of a drawer assembly. A3: I can draw an oblique drawing of a cabinet project. A4: I can draw a solid model of my project.</p>		<p>A: Drawing types CFA A1: A computer aided of pencil drawn plan of project. CFA A2: A cabinet oblique pencil drawn sketch of project. CFA A3: A project drawing used solid modeling.</p> <p><u>Suggested advanced projects:</u> toboggan, dressers business centers, kitchen tables/ chairs, log beds, chairs Kitchen cabinets</p>	<p>A: Drawing types Internet and project plan library in shop</p>

<p>UEQ: <i>What are different species of wood?</i> </p> <p>B: Wood types B1. Deciduous B2. Coniferous B3. Laminate/Composites</p>	<p>B: Wood types B1: Indentify hardwoods available in the woodshop B2: Indentify the softwood available in the woodshop B3: Indentify the veneer laminate and composite materials available in todays woodworking industry.</p>	<p>B: Wood types B1: I can identify 3 types of deciduous (hardwoods) used in the woodshop. B2: I can identify 2 types of coniferous (softwoods) used in the woodshop B3: I can identify veneer laminate and composite materials available in today's woodworking industry.</p>	<p>B: Wood types CSA 10 point test on various types of wood and laminates.</p>	<p>B: Wood types various wood species samples</p>
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UEQ:
How do you estimate the cost of a wood project?



C: Estimating Material Cost

C1: Bill of materials

C2: Board footage

C2: Square Footage

C2: Waste estimating

C: Estimating Material Cost

C1: Write a bill a materials

C2: Calculate the board footage and square footage.

C2: calculate the estimated cost of the project.

C: Estimating Material Cost

C1-2: I can calculate from my plans the total board feet necessary and the approximate board feet wasted in order to complete my project.

C1-2: I can calculate the final cost of my project from the total board feet needed for my project.

C: Estimating Material Cost

CFA C1: Written bill of materials for a shop project.
 CFA C2: Written estimated cost of the project.

C: Estimating Material Cost

Bill of Materials Handout.

<p>UEQ: <i>What are hand and power tools?</i></p>  <p>D: Tools D1: Hand tools D2: Measuring tools D3: Fastening tools D4: Power tools</p>	<p>D: Tools D1 Hand tools - cutting tools - sawing tools - drilling tools - sanding tools D2: Measuring tools - tape measure - tri-square - framing square D3: Fastening tools - pneumatic nailer - pneumatic stapler - pocket hole jig D4: Power tools - table saw - compound miter saw - wide belt sander - edge sander - routers and shapers - band saw - sanders - laser engraver - CNC routing</p>	<p>D: Tools D1-4: I can identify tools and the correct application for each tool. D2: I can choose the proper measuring instrument to measure to the nearest 1/16" D3: I can choose the proper fastening method for my project and utilize the correct tool. D4: I can safely use the proper power tool for correct application for my project.</p>	<p>D: Tools CSA D1: 10 point test CFA D1. After the instructor demonstrates the tool, a student is asked to re-demo the tool. CFA Instructor observations throughout the trimester.</p>	<p>D: Tools various shop tools</p>
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<p>UEQ: <i>What is the best joint to use to assemble my project?</i></p>  <p>E: Joinery E1: Butt E2: Biscuit E3: Dowel E4: Rabbet E5: Dado E6: Lap E7: Miter E8: Mortise and tenon E9: Dovetail E10: Pocket hole</p>	<p>E: Joinery E2: Biscuit cutter E3: Drilling E4-8: Table saw E9: Router E10: Drilling</p>	<p>E: Joinery E2: I can operate the biscuit cutter to safely install biscuit grooves in my project. E3+10: I can safely use the hand drill or drill press to create dowel holes or pocket holes. E4-8: I can safely use the table saw to create a rabbet, dado, lap, miter, or tenon. E9: I can safely use the router to create a dovetail jig.</p>	<p>E: Joinery CFA Instructor observations throughout the trimester.</p>	<p>E: Joinery Various woodshop tools.</p>
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<p>UEQ: <i>What safety rules should followed in a woodshop?</i></p> <p>F: Wood shop safety F1. Tool operation F2. Eye and ear protection F3. Proper clothing</p>	<p>F: Woodshop safety F1. Recognize potential hazards F2. Demonstrate proper tool set-up F3. Follow all shop safety rules F3. Respect others and property.</p>	<p>F: Woodshop safety F1: I can recognize safety hazards and correct or avoid and potential dangerous situations. F2: I can properly set up tools for safe operation. F3: I can be a good citizen in the woodshop by follow all shop rules and respecting others.</p>	<p>F: Woodshop safety CSA F1-3 Multiple choice safety test. CSA F1-3 Correct test and discuss answers to the safety quiz. Sign/date CFA Instructor observations throughout the trimester.</p>	<p>F: Woodshop safety STMA Safety Test SMART Response Clickers</p>
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UEQ: *How do you fabricate a woodshop project?*

G: Fabrication
G1. Gluing wood panels
G1. Correct wood joints
G2. Assembling cases or body of project
G3. Face frames
G4. Door construction
G5. Drawer construction and install.

G: Fabrication
 G1. Glue top of project and panels
 G1. Select the correct assembly process
 G2. Cut joints to assemble project
 G3. Layout the face frames.
 G4. Calculate the correct door size.
 G5. Indentify the drawer slides and sizes G5. build a simple drawer.

G: Fabrication
 G1-5: I can choose the proper method for assembling my project.

G: Fabrication
 CFA G1-5
 Weekly working grades are given on progress of project. (checklist)
 CFA Instructor observations throughout the trimester.

G: Fabrication

<p>UEQ: <i>What are some advanced woodworking techniques?</i></p> <p>H: Advanced techniques H1. Steam Bending H2. Log furniture H3. Jigs & fixtures H4. Raised panel doors H5. CNC routing</p>	<p>H: Advanced techniques H1. Build a jig for steam bending. H2. Design a log furniture set. H4. Construct raised panel doors H5. Layout parts of cabinets on CNC</p>	<p>H: Advanced techniques H1-4: I can choose the proper technique for constructing my project.</p>		<p>H: Advanced techniques CFA Instructor observations throughout the trimester.</p>
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<p>UEO: <i>What type of finishes are applied to furniture?</i></p> <p>I: Finishes I1. Sanding sealers I2. Varnish or polyurethane I3. Paint finishes I3 Oil finishes I4. Brush on finish I4. Airless applications I4. Antique finishes</p>	<p>I: Finishes I1-4 Apply a finish to the project.</p>	<p>I: Finishes I1-4: I can choose the proper finish to apply to my project. I1-4: I can apply the proper finish to my project.</p>		<p>I: Finishes I1- 4 A grade will be given to the project. (checklist)</p>	<p>I: Finishes Various finishes</p>
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