



# **Alabama Department of Postsecondary Education**

## **Representing the Alabama Community College System**

### **STATEWIDE CAREER/TECHNICAL EDUCATION COURSE ARTICULATION REVIEW MINUTES**

Articulation Agreement Identifier: CAB 140 (2007-1) Identifier is the postsecondary course prefix followed by Plan-of-Instruction version number (e.g.; INT 100 (2007-1)).

Applicable CIP code(s): 48.0703

Postsecondary course prefix, number, and title: CAB 140 Woodfinishing Fundamentals

Secondary Education course(s) title and number: 431201/430021 - Cabinetmaking I + 431202/430022 - Cabinetmaking II

Initial Review: January 28, 2010 Annual DPE Review: February 9, 2012

Effective date: **Fall Semester 2011.**

Course Content Analysis (all postsecondary course objectives must be sufficiently addressed in the secondary courses):

#### **Notes:**

- 1 Skills and knowledge contained in the postsecondary course objectives must be present in the corresponding secondary objectives for a “match” to occur.**
- 2. Postsecondary and Secondary objectives must reflect similar content and performance levels before the course articulation agreement will be recommended to the TEDAC Oversight Committee.**
- 3. More than one Secondary course may be used in order to articulate to a Postsecondary course.**

Postsecondary Course Objectives	Secondary Objectives and Location(s)	TEDAC Comments
<p><b><u>Module A Finishing Decisions</u></b>  <b><u>Competency</u></b>                      A1.0 Make decisions for finishing wood and wood products.  <b><u>Learning Objectives</u></b>                      A1.1.1 Define various terms associated with finishing.                      A1.1.2 Explain various decisions that need to be made prior to finishing a project.                      A1.1.3 Differentiate between various types of topcoat.                      A1.1.4 Explain the various steps to be considered in order to thoroughly plan your project.                      A1.1.5 Describe the safety precautions necessary for finishing a project.</p>	<p><b><u>Cabinetmaking II, Unit 1, Safety</u></b>  <b><u>Content Standard</u></b>                      1. Apply safety standards and procedures for the cabinetmaking industry.  <b><u>Learning Objectives</u></b>                      1. Identify unsafe acts.                      2. Explain how to reduce or eliminate hazardous conditions around machines and equipment.                      3. Handle and store materials properly.                      4. Explain procedures to follow if an accident occurs.</p>	
<p><b><u>Module B Abrasives</u></b>  <b><u>Competency</u></b>                      B1.0 Explain the uses of various abrasives, and what material they are most effective on.  <b><u>Learning Objectives</u></b>                      B1.1.1 Define various terms and definitions associated with abrasives.                      B1.1.2 Describe various considerations for selecting abrasive materials for smoothing surfaces.                      B1.1.3 Identify major natural and synthetic abrasive materials.                      B1.1.4 Differentiate between abrasive grain type and grit size and explain when each would be used.</p>	<p><b><u>Cabinetmaking II, Unit 2-3, Surface and Substrate</u></b>  <b><u>Materials and Conditions</u></b>  <b><u>Content Standard</u></b>                      2. Identify tools, materials, and methods used in surface preparation.                      3. Determine types of surfaces used in cabinetmaking.  <b><u>Learning Objectives</u></b>                      1. Inspect material surfaces to decide if abrading is necessary.                      2. Select abrasives by type and grit.                      3. Use abrasives by hand.                      4. Operate various portable and stationary power sanding equipment.</p>	

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<p>B1.1.5 Identify the adhesives and backings for various coated abrasives.</p> <p><b><u>Module C Preparing Surfaces Competency</u></b></p> <p>C1.0 Explain the various trade techniques for surface preparation.</p> <p>C1.1 Safely correct various surface defects, remove natural color or stains as required, and properly raise the grain.</p> <p><b><u>Learning Objectives</u></b></p> <p>C1.1.1 Define various terms associated with surface preparation.</p> <p>C1.1.2 Describe the various safety precautions necessary for surface preparation.</p> <p>C1.1.3 Explain various procedures for repairing dents, chips, scratches, and voids.</p> <p>C1.1.4 Describe how to remove natural color or stains by bleaching.</p> <p>C1.1.5 Describe the appropriate techniques for raising the grain.</p> <p>C1.1.6 Explain the various techniques used for distressing wood.</p>	<p>5. Inspect surfaces ready for product assembly or finishing.</p> <p>6. Maintain electrical and air-operated power tools.</p> <p><b><u>Cabinetmaking II, Unit 2-3, Surface and Substrate Materials and Conditions Content Standard</u></b></p> <p>2. Identify tools, materials, and methods used in surface preparation.</p> <p>3. Determine types of surfaces used in cabinetmaking.</p> <p><b><u>Learning Objectives</u></b></p> <p>1. Inspect material surfaces to decide if abrading is necessary.</p> <p>2. Select abrasives by type and grit.</p> <p>3. Use abrasives by hand.</p> <p>4. Operate various portable and stationary power sanding equipment.</p> <p>5. Inspect surfaces ready for product assembly or finishing.</p> <p>6. Maintain electrical and air-operated power tools.</p>	

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<p><b><u>Module D Applying Finishing Materials Competency</u></b></p> <p>D1.0 Use trade techniques to apply a finish according to specifications.</p> <p>D1.1 Select appropriate tools and equipment, finish a specified project, clean and maintain tools and equipment.</p> <p><b><u>Learning Objectives</u></b></p> <p>D1.1.1 Define various terms associated with applying finishing materials.</p> <p>D1.1.2 Differentiate between the attributes of various types of brushes.</p> <p>D1.1.3 Describe various brushing techniques.</p> <p>D1.1.4 Describe the process for cleaning and maintaining brushes.</p> <p>D1.1.5 Differentiate between the various methods of spraying.</p> <p>D1.1.6 Identify the various types of equipment necessary for each type of spraying operation.</p> <p>D1.1.7 Explain common problems with spray equipment.</p> <p>D1.1.8 Explain various techniques for cleaning and maintaining spray equipment.</p> <p>D1.1.9 Discuss various alternative methods for applying finish materials.</p> <p>D1.1.10 Describe personal protective equipment necessary when applying finishing materials.</p> <p>D1.1.11 Describe various essential safety precautions when applying finishing materials.</p>	<p><b><u>Cabinetmaking II, Unit 4, Sealants and Repair and Fillers Content Standard</u></b></p> <p>4. Classify characteristics of commonly used sealants, stains, paints, and laminates used in cabinetmaking.</p> <p><b><u>Learning Objectives</u></b></p> <p>1. Select and apply penetrating or built-up top coatings.                  2. De-gloss the surface between coats of finish.                  3. Polish a dry film.                  4. Apply decals, stencils, stripes, and other surface accents.</p> <p><b><u>Cabinetmaking II, Unit 5-10, Painting Failures and Remedies Content Standard</u></b></p> <p>5. Explain failures of paints and coatings on exterior and interior surfaces.                  6. Explain remedies that may be used to repair physical failures to surface finishes, including scratches, discoloration, and watermarks.                  7. Explain the purpose of chemical cleaning and stripping, including how various kinds of chemical cleaners and strippers are used.                  8. Explain cabinet refinishing techniques, including low-</p>	

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<p><b><u>Module E Preparing for a Top Coat Competency</u></b></p> <p>E1.0 Use trade techniques to prepare the surface for topcoating.</p> <p>E1.1 Select appropriate stains for various types of wood, seal or prime lumber as required.</p> <p><b><u>Learning Objectives</u></b></p> <p>E1.1.1 Define various terms associated with preparing for a topcoat.</p> <p>E1.1.2 Explain the procedure for washcoating.</p> <p>E1.1.3 Differentiate between various types of stains.</p> <p>E1.1.4 Describe some common trade techniques for applying various stains.</p> <p>E1.1.5 Differentiate between various types of filler and explain the application of each type.</p> <p>E1.1.6 Differentiate between the common types of sealers.</p> <p>E1.1.7 Explain the reasons for priming.</p> <p>E1.1.8 Explain techniques for various applications of decorative finishes.</p> <p>E1.1.9 Describe personal protective equipment necessary when preparing for a topcoat.</p> <p>E1.1.10 Describe various essential safety precautions when preparing for a topcoat.</p> <p><b><u>Module F Top Coating Competency</u></b></p> <p>F1.0 Use trade techniques to apply a topcoat according to specifications.</p>	<p>pressure water cleaning, abrasive blasting, and brushing and rolling.</p> <p>9. Explain cabinet finishing techniques, including sealants, clear finishes, spray painting, and stains.</p> <p>10. Describe advantages and disadvantages of various cabinetry products, including durability and availability.</p> <p><b><u>Learning Objectives</u></b></p> <p>1. Determine solution to repair surface failures.</p> <p>2. Select tools and equipment to apply finishing materials.</p> <p>3. Apply finishes by brushing, spraying, wiping, dipping, or rolling.</p> <p>4. Clean and maintain tools and equipment.</p>	

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<p>F1.1 Safely select and apply topcoatings as specified. Degloss the surface between coats, and clean and maintain equipment.</p> <p><b><u>Learning Objectives</u></b></p> <p>F1.1.1 Define various terms associated with topcoating.</p> <p>F1.1.2 Differentiate between various types of natural finishes.</p> <p>F1.1.3 Differentiate between various types of built-up topcoatings.</p> <p>F1.1.4 Differentiate between various types of varnishes.</p> <p>F1.1.5 Describe appropriate techniques for applying various topcoats.</p> <p>F1.1.6 Differentiate between various types of enamel.</p> <p>F1.1.7 Describe deglossing techniques.</p> <p>F1.1.8 Describe personal protective equipment necessary when applying a topcoat.</p> <p>F1.1.9 Describe various essential safety precautions when applying a topcoat.</p>		