



Alabama Department of Postsecondary Education

Representing the Alabama Community College System

STATEWIDE CAREER/TECHNICAL EDUCATION COURSE ARTICULATION REVIEW MINUTES

Articulation Agreement Identifier: ABR 122 (2005-1) Identifier is the postsecondary course prefix followed by Plan-of-Instruction version number (e.g.; INT 100 (2005-1)).

Applicable CIP code(s): 47.0603

Postsecondary course prefix, number, and title: ABR 122 Surface Preparation

Secondary Course(s) of Study: 471101/570030 - Painting and Refinishing I + 471102/570031 - Painting and Refinishing II

Initial Review: Sept 17, 2009 Annual DPE Review: January 24, 2012

Effective dates: 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 Course(s) and Location(s)	TEDAC Comments
<p>Competency: A1.0 Prepare surfaces for painting and refinishing</p> <p>A1.1 Inspect, remove, store, and replace exterior trim and molding. A1.1.1 Explain the processes of inspection, removal, storage, and replacement of exterior trim and molding.</p> <p>A1.2 Soap and water wash entire vehicle. A1.2.1 List appropriate cleaners for contaminant removal. A1.2.2 Explain the process of contaminant removal from repair areas.</p> <p>A1.3 Inspect and identify substrate. A1.3.1 Explain the processes of inspecting and identifying substrate.</p> <p>A1.4 Identify type of finishing and surface condition. A1.4.1 List types of finishing. A1.4.2 List possible surface conditions. A1.4.3 Identify various finishing conditions. A1.4.4 Identify various surface conditions.</p> <p>A1.5 Develop a plan for refinishing. A1.5.1 Describe a refinishing plan.</p> <p>A1.6 Sand areas to be refinished. A1.6.1 Identify appropriate sandpaper grit for selected projects. A1.6.2 Describe methods of sanding.</p> <p>A1.7 Featheredge broken areas to be refinished. A1.7.1 Explain featheredging techniques.</p>	<p>Painting & Refinishing I, Unit 2 Content Standard</p> <p>2. Describe procedures for surface painting and refinishing.</p> <p>Learning Objectives</p> <ol style="list-style-type: none"> 1. Explain the processes of preparing surfaces for refinishing. 2. Soap and water wash entire vehicle. 3. Inspect, remove, store, and replace exterior trim and molding. 4. Inspect and identify substrate. 5. Identify type of finishing and surface condition. 6. Explain the processes of inspection, removal, storage, and replacement of exterior trim and molding. 7. List appropriate cleaners for contaminant removal. 8. Explain the process of contaminant removal from repair areas. <p>Painting & Refinishing II, Unit 2 Content Standard</p> <p>2. Explain procedures for surface painting and refinishing.</p> <p>Learning Objectives</p> <ol style="list-style-type: none"> 1. Develop a plan for refinishing. 2. Sand areas to be refinished. 3. Featheredge broken areas to be refinished. 4. Apply suitable metal treatment or primer according to manufacturer's specifications. 5. Mask trim and protect other areas that will not be painted. 	

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<p>A1.8 Apply suitable metal treatment or primer according to manufacturer's specifications. A1.8.1 List the types of metal treatments and primers. A1.8.2 Determine manufacturers' specifications for metal treatment and priming. A1.8.3 Describe metal treatment and primer application techniques</p> <p>A1.9 Mask trim and protect other areas that will not be painted. A1.9.1 Identify proper masking and protection materials. A1.9.2 Explain masking and protection techniques.</p> <p>A1.10 Mix primer, primer-surfacer or primer-sealer according to manufacturer's guidelines. A1.10.1 Identify primers, surfacers, and sealers. A1.10.2 Determine manufacturers' specifications for mixing primers, surfacers, and sealers. A1.10.3 Explain the mixing process for primers, surfacers, and sealers.</p> <p>A1.11 Apply primer and primer products to repaired areas. A1.11.1 Explain the process of applying primer and primer products to repaired areas.</p> <p>A1.12 Apply two-component finishing filler. A1.12.1 Define two-component finishing filler. A1.12.2 Explain the process of applying two-component finishing filler.</p> <p>A1.13 Dry or wet sand primer-surfacer to a smooth finish. A1.13.1 Explain the process of dry and wet sanding primer-surfacing.</p> <p>A1.14 Dry sand area to apply two-component finishing filler to align with surrounding area.</p>	<p>6. Mix primer, primer-surfacer or primer-sealer according to manufacturer's guidelines. 7. Apply primer and primer products to repaired areas. 8. Apply two-component finishing filler. 9. Dry or wet sand primer-surfacer to a smooth finish. 10. Dry sand area to apply two-component finishing filler to align with surrounding area. 11. Remove dust from area to be refinished. 12. Clean areas to be refinished with final cleaning solution to remove all contaminants. 13. Tack area to remove all dust. 14. Apply suitable sealer to repaired area. 15. Differentiate between shaking, stirring, reducing, catalyzing/activating, and straining. 16. Scuff sand to remove nibs or imperfections from sealer. 17. Prepare adjacent panel for blending and secure a blendable match. 18. Identify appropriate sandpaper grit for selected projects. 19. Describe methods of sanding. 20. Explain featheredging techniques. 21. Identify proper masking and protection materials. 22. Explain masking and protection techniques. 23. Define two-component finishing filler. 24. Explain the process of applying two-component finishing filler. 25. Explain the process of dry and wet sanding primer-surfacing. 26. Explain the process of dry sanding to apply two-component finishing filler. 27. List dust removal materials. 28. Describe dust removal techniques. 29. Identify suitable cleaning solutions for final cleaning. 30. Explain final cleaning process. 31. Define two-component finishing filler. 32. Identify the types of rigid, semi-rigid or flexible plastic parts</p>	

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<p>A1.14.1 Explain the process of dry sanding to apply two-component finishing filler.</p> <p>A1.15 Remove dust from area to be refinished. A1.15.1 List dust removal materials. A1.15.2 Describe dust removal techniques.</p> <p>A1.16 Clean areas to be refinished with final cleaning solution to remove all contaminants. A1.16.1 Identify suitable cleaning solutions for final cleaning. A1.16.2 Explain final cleaning process.</p> <p>A1.17 Tack area to remove all dust. A1.17.1 Identify tacking materials. A1.17.2 Explain tacking techniques.</p> <p>A1.18 Apply suitable sealer to repaired area. A1.18.1 Identify suitable sealer for selected tasks. A1.18.2 Explain the application of sealer to repaired areas.</p> <p>A1.19 Scuff sand to remove nibs or imperfections from sealer. A1.19.1 Explain the scuff sanding process.</p> <p>A1.20 Apply stone chip resistant coating according to manufacturer's specifications. A1.20.1 Identify stone chip resistant coating. A1.20.2 Determine manufactures' specification for stone chip resistant coating. A1.20.3 Explain the application process of stone chip resistant coating.</p> <p>A1.21 Restore corrosion-resistant coating to OEM specifications. A1.21.1 Identify corrosion-resistant coating. A1.21.2 Determine OEM specifications for corrosion-resistant</p>	<p>to be refinished; determine the materials, preparation, and refinishing procedures. 33. Refinish rigid, semi-rigid and flexible plastic parts. 34. Clean, condition and refinish vinyl (e.g. upholstery, dashes, and tops).</p> <p>Painting & Refinishing I, Unit 3 Content Standard</p> <p>3. Demonstrate inspection and cleaning of spray guns and related equipment.</p> <p>Learning Objectives</p> <ol style="list-style-type: none"> 1. Identify spray gun and related equipment components. 2. Explain inspection and cleaning procedures for spray guns and related equipment. 3. Clean and set-up (fluid needle, nozzle, and cap), adjust, and test spray gun using fluid, air, and pattern control valves. 4. Check and adjust spray gun operation for HVLP (high volume, low pressure) or LVLP (low volume, low pressure) guns. 5. Inspect, clean, and determine condition of spray guns and related equipment. <p>Painting & Refinishing I, Unit 4 Content Standard</p> <p>4. Determine type and color of paint on the vehicle according to manufacturer's vehicle information.</p> <p>Learning Objectives</p>	

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<p>coating.</p> <p>A1.21.3 Explain the application process for corrosion-resistant coating.</p> <p>A1.22 Prepare adjacent panel for blending and secure a blendable match.</p> <p>A1.22.1 Define blending.</p> <p>A1.22.2 Describe matching techniques.</p> <p>A1.22.3 Explain the process of blending.</p>	<ol style="list-style-type: none"> 1. Explain the processes of inspecting and identifying substrate. 2. List types of finishing. 3. List possible surface conditions. 4. Identify various finishing conditions. 5. Identify various surface conditions. 6. Identify primers, surfacers, and sealers. 7. Determine manufacturers' specifications for mixing primers, surfacers, and sealers. 8. Explain the mixing process for primers, surfacers, and sealers. 9. Determine type and color of paint already on vehicle by manufacturer's vehicle information label. 10. Identify manufacturer's vehicle information label locations. 11. Identify paint code on information label. 12. Match paint code to type and color of paint on vehicle. 13. Begin painting practice. <p>Painting & Refinishing I, Unit 5 Content Standard</p> <ol style="list-style-type: none"> 5. Identify paint defects. <p>Learning Objectives</p> <ol style="list-style-type: none"> 1. Define hiding colors. 2. Identify poor hiding colors; determine necessary action. 3. Tint color using formula to achieve a blendable match. 4. List materials used to denib, buff, and polish finishes. 5. Explain principles of denibing. 6. Explain principles of buffing. 7. Explain principles of polishing finishes. 8. Determine course of action to correct painting defects. <p>Painting & Refinishing I, Unit 6</p>	

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	<p>Content Standard</p> <p>6. Describe procedures involved with final detail for painting and refinishing. 7. Summarize procedures for the completion of an estimate of repair.</p> <p>Learning Objectives</p> <p>1. Define the term “single stage” top coat. 2. Explain the application of single stage topcoat for refinishing. 3. Explain the concept of partial refinishing. 4. Define the terms basecoat and clearcoat. 5. Explain panel blending. 6. Explain the application of basecoat/clearcoat for panel blending. 7. Explain the concept of overall refinishing. 8. Explain the application of basecoat/clearcoat for overall refinishing. 9. List and explain final detail and its components. 10. List the components found in an estimate of repair. 11. Define the components found in an estimate of repair. 12. List the procedures used to complete an estimate of repair. 13. Describe a refinishing plan. 14. Understand an estimate of repair.</p>	