



South Central College

ABCT 1870 Refinishing

Course Outcome Summary

Course Information

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| Description | This course teaches panel blending and overall refinish procedures using single and multi-stage refinish products. |
| Total Credits | 3 |
| Total Hours | 80 |

Types of Instruction

| Instruction Type | Credits/Hours |
|------------------|---------------|
| Lecture | |
| Lab | |

Pre/Corequisites

None

Institutional Core Competencies

Civic Engagement and Social Responsibility - Students will be able to demonstrate the ability to engage in the social responsibilities expected of a community member.

Communication - Students will be able to demonstrate appropriate and effective interactions with others to achieve their personal, academic, and professional objectives.

Critical and Creative Thinking - Students will be able to demonstrate purposeful thinking with the goal of using a creative process for developing and building upon ideas and/or the goal of using a critical process for the analyzing and evaluating of ideas.

Course Competencies

- The following list of course goals will be addressed in the course. These goals are directly related to the performance objectives. [HP-I] designates an individual goal. [HP-G] designates a group goal.**
- Exhibit professionalism**
- Comply with personal and environmental safety practices associated with clothing and the use of gloves; respiratory protection; eye protection; hand tools; power equipment; proper ventilation; and the handling, storage, and disposal of chemicals/materials in accordance with local, state, and federal safety and environmental regulations.**

4. [HP-I] Identify and take necessary precautions with hazardous operations and materials according to federal, state, and local regulations.
5. [HP-I] Identify safety and personal health hazards according to OSHA guidelines and the Right to Know Law.
6. [HP-I] Inspect spray environment to ensure compliance with federal, state and local regulations, and for safety and cleanliness hazards.
7. [HP-I] Select and use the NIOSH approved personal sanding respirator. Inspect condition and ensure fit and operation. Perform proper maintenance in accordance with OSHA Regulation 1910.134 and applicable state and local regulation.
8. [HP-I] Select and use the NIOSH approved (Fresh Air Make-up System) personal painting/refinishing respirator system. Perform proper maintenance in accordance with OSHA Regulation 1910.134 and applicable state and local regulation.
9. [HP-I] Select and use the proper personal safety equipment for surface preparation, spray gun and related equipment operation, paint mixing, matching and application, paint defects, and detailing (gloves, suits, hoods, eye and ear protection, etc.).
10. [HP-I] Inspect, remove, store, and replace exterior trim and components necessary for proper surface preparation.
11. [HP-I] Soap and water wash entire vehicle; use appropriate cleaner to remove contaminants.
12. [HP-I] Inspect and identify substrate, type of finish, surface condition, and film thickness; develop and document a plan for refinishing using a total product system.
13. [HP-I] Remove paint finish.
14. [HP-I] Dry or wet sand areas to be refinished.
15. [HP-I] Featheredge damaged areas to be refinished.
16. [HP-I] Apply suitable metal treatment or primer in accordance with total product systems.
17. [HP-I] Mask and protect other areas that will not be refinished.
18. [HP-I] Mix primer, primer-surfacer or primer-sealer.
19. [HP-I] Remove dust from area to be refinished, including cracks or moldings of adjacent areas.
20. [HP-I] Clean area to be refinished using a final cleaning solution.
21. [HP-I] Remove, with a tack rag, any dust or lint particles from the area to be refinished.
22. [HP-I] Apply suitable sealer to the area being refinished when sealing is needed or desirable.
23. [HP-I] Scuff sand to remove nibs or imperfections from a sealer.
24. [HP-G] Apply stone chip resistant coating.
25. [HP-I] Restore corrosion-resistant coatings, caulking, and seam sealers to repaired areas.
26. [HP-I] Prepare adjacent panels for blending.
27. [HP-I] Identify the types of rigid, semi-rigid or flexible plastic parts to be refinished; determine the materials, preparation, and refinishing procedures.
28. [HP-G] Identify aluminum parts to be refinished; determine the materials, preparation, and refinishing procedures.
29. [HP-I] Inspect, clean, and determine condition of spray guns and related equipment.
30. [HP-I] Check and adjust spray gun operation for HVLP (high volume, low pressure) or LVLP (low volume, low pressure) guns.

31. [HP-I] Set-up (fluid needle, nozzle, and cap), adjust, and test spray gun using fluid, air, and pattern control valves.
32. [HP-I] Determine type and color of paint already on vehicle by manufacturer's vehicle information label.
33. [HP-I] Shake, stir, reduce, catalyze/activate, and strain paint.
34. [HP-I] Apply finish using appropriate spray techniques (gun arc, gun angle, gun distance, gun speed, and spray pattern overlap) for the finish being applied.
35. [HP-I] Apply selected product on test and let-down panel; check for color match.
36. [HP-I] Apply single stage topcoat.
37. [HP-I] Apply basecoat/clearcoat for panel blending or partial refinishing.
38. [HP-G] Apply basecoat/clearcoat for overall refinishing.
39. [HP-I] Denib, buff, and polish finishes where necessary.
40. [HP-G] Apply multi-stage coats for panel blending or overall refinishing.
41. [HP-G] Identify and mix paint using a formula.
42. [HP-G] Identify overspray; determine the cause(s) and correct the condition.
43. [HP-G] Identify corrosion; determine the cause(s) and correct the condition.
44. [HP-I] Identify dirt or dust in the paint surface; determine the cause(s) and correct the condition.
45. [HP-I] Measure mil thickness.
46. [HP-G] Apply decals, transfers, tapes, woodgrains, pinstripes (painted and taped), etc.
47. [HP-I] Clean interior, exterior, and glass.
48. [HP-I] Clean body openings (door jambs and edges, etc.).
49. [HP-I] Remove overspray.

SCC Accessibility Statement

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