

Minnesota State College Southeast

ABCT 1255: Refinishing 2

A. COURSE DESCRIPTION

Credits: 5

Lecture Hours/Week: 1

Lab Hours/Week: 8

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

Refinishing 2 starts with cleaning of vehicle or panels to be refinished and then the development of a paint plan. Preparation of the panel(s) for top coat application, pre-paint cleaning procedures, set-up of spray equipment, mixing of paint materials and application are all part of the processes covered. Additionally paint detailing, paint problems and defects, vehicle protection, masking methods, color identification, and personal safety are included. This course start with top coat systems where refinishing y 1 ended with application of primer materials needed to treat bare metal and correct minor panel imperfections.

(Prerequisite or concurrent: ABCT1115, ABCT1155 is highly recommended but not required) (5 credits: 1 lecture/4 lab)

B. COURSE EFFECTIVE DATES: 02/10/2015 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Refinishing safety as it relates to personal and environmental regulations at all levels
2. Paint planning that follows paint manufacturer's recommended procedures
3. Paint preparation of vehicles and panels to be refinished
4. Application of sealers, color coats, clear coats, and chip coatings to various metal and plastic substrates
5. Spray equipment operation, set-up, and maintenance
6. Paint detailing and paint problem solutions

D. LEARNING OUTCOMES (General)

1. Identify and use precautions for refinishing in compliance with federal, state, and local regulations
2. Inspect spray area and equipment to ensure proper operation and compliance with regulations
3. Participate in maintenance of spray equipment and spray areas
4. Demonstrate knowledge of paint respirator types, their proper usage, inspection and testing requirements, and maintenance
5. Identify and perform vehicle cleaning procedures for preparation of panel sanding methods for refinishing
6. Identify existing surface condition of panels to be refinished and prepare a paint plan
7. Use paint manufacturer reference materials to develop a paint plan
8. Identify and select supplies and methods to scuff, level, and prepare panels to be refinished
9. Mask and protect areas that will not be refinished
10. Perform panel sanding and scuffing procedures for top coats
11. Identify areas requiring metal treatments, mix materials, and apply
12. Identify areas requiring primer surfacers, mix, and apply
13. Block sand primer surfacers to correct imperfections
14. Clean vehicle for top coat application
15. Mask vehicle and parts for top coat application
16. Identify color code by vehicle manufacturer's vehicle information labels
17. Identify primer/sealers, types, grey shades, color shades, and select type for paint plan to be used
18. Identify chip coating and determine repair and replacement methods
19. Select chip coating materials and apply to required or assigned area
20. Identify areas requiring replacement of seams sealers and determine method of duplication
21. Apply seam sealers to required areas or assigned panel
22. Set-up paint spray equipment and properly adjust spray gun pattern and setting for product to be used
23. Properly agitate, formulate, reduce, and stir paint materials following paint manufacturer's formulas and procedures
24. Utilize paint manufacturer's color variance selector chips to check color match
25. Apply solid color coats to vehicle or assigned panels
26. Apply metallic color coats to vehicle or assigned panels
27. Blend color coats to assigned area or panels
28. Apply clear coat to assigned area or panels
29. Remove dirt nibs or imperfections from sealer and color coats
30. Prepare flexible plastic body panels for sealer and paint application
31. Apply paint products to flexible plastic body panels
32. Identify paint problems and defects that will require removal of current paint application materials to correct the conditions
33. Identify paint problems and defects that will require sanding and refinishing of current application problems to correct the conditions
34. Identify paint problems and defects that can be corrected during application of the current paint materials
35. Identify paint problems and defects that can be correct using detailing techniques for the current paint application
36. Correct current paint application problems and defects
37. Perform sanding and buffing procedures on recently applied paint finishes
38. Detail vehicle after sanding and buffing procedures
39. Remove paint overspray from trim, glass, tires and wheels, and other painted surfaces

40. Apply decal materials such as clear chip shields, pinstripes, company door decals and other similar items
41. Prepare painted panels or vehicle for customer delivery following refinishing procedures
42. Complete course assignments, quizzes, and tests
43. Participate in all course activities
44. Exhibit professionalism

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted