

Minnesota State College Southeast

ABCT 1240: Advanced Refinishing

A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 1

Lab Hours/Week: 4

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

Building on the Introduction to Refinishing course, Advanced Refinishing topics include: procedures used to successfully match vehicle color when using single-stage, basecoat/clearcoat, and tri-stage finishes. Advanced masking techniques, corrosion protection of repair areas, elimination of paint contaminants, paint problems and cures, and detailing finishes for customer delivery are also covered. Application of the information presented in this course will provide the student with the knowledge and skill to deliver an undetectable paint repair. (Prerequisite: ABCT1100 or instructor permission) (3 Credits: 1 lec/2 lab)

B. COURSE EFFECTIVE DATES: 10/15/1998 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

D. LEARNING OUTCOMES (General)

1. Exhibit refinishing health and safety practices
2. Interpret refinishing terms
3. Analyze vehicle appearance factors
4. Identify color matching variables
5. Identify color theory
6. Identify color tinting procedures
7. Identify surface preparation for spot refinishing
8. Identify special masking techniques
9. Identify gun techniques for color blending
10. Identify solvent blending techniques
11. Perform assigned color matching exercises
12. Identify multi-stage finishes
13. Describe multi-stage refinishing procedures
14. Apply multi-stage finish (panel and spot repair)
15. Identify paint film problems associated with spray equipment
16. Identify spray gun cleaning procedures
17. Clean spray guns
18. Identify corrosion protection materials
19. Identify corrosion protection application equipment
20. Apply corrosion protection materials
21. Perform vehicle pre-cleaning procedures
22. Identify pre-existing paint film conditions and refinish procedures
23. Analyze paint surface conditions
24. Formulate a refinishing plan
25. Perform vehicle paint code identification
26. Formulate vehicle color
27. Spray-out color analysis panel
28. Evaluate color spray-out and tint vehicle color
29. Identify improper surface preparation related paint film problems
30. Perform surface preparations for refinishing
31. Mask for application of undercoats
32. Mix and apply undercoats as required
33. Identify dirt contamination sources and cures
34. Perform vehicle pre-cleaning tasks
35. Develop vehicle spraying plan
36. Identify specialty coatings
37. Identify masking procedures for specialty coatings and two tone finishes
38. Identify masking related paint film problems and cures
39. Mask vehicle for application of topcoats
40. Describe spray booths and air supply equipment
41. Identify paint film problems associated with air supply and spray environment
42. Describe spray booth maintenance, preparation and operation procedures
43. Prepare and operate spray booth
44. Perform vehicle final cleaning for topcoat applications

45. Identify painter preparation procedures
46. Perform painter preparation tasks
47. Setup and operate spray equipment
48. Apply specialty coatings
49. Apply vehicle topcoats
50. Identify paint detailing procedures
51. Detail vehicle paint finish
52. Perform shop/equipment maintenance and clean-up duties
53. 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