COURSE INFORMATION FORM

DISCIPLINE Automotive Technology

COURSE TITLE Automotive Painting

CR.HR  4     LECT HR  1     LAB HR  9     CLIN/INTERN HR. N/A     CLOCK HR. N/A

CATALOG DESCRIPTION
Analysis, preparation, and performance of paint applications on modern automobiles and light trucks.

PREREQUISITES
Acceptance into the Articulation Program for Auto Collision Repair.

EXPECTED STUDENT OUTCOMES IN THE COURSE
Upon completion of this course, the student will be able to:
1. Evaluate the extent and degree of paint damage.
2. Recommend the appropriate repair and refinish options.
3. Prepare the vehicle for the required repair procedures.
4. Apply the proper undercoats and topcoats.
5. Mask, stripe, and detail the vehicle.
CLASS-LEVEL ASSESSMENT MEASURES

Student accomplishment of expected student outcomes will be assessed using the following measures. (Identify which measures are used to assess which outcomes.)

1. Written tests. (1, 2)
2. Observation of performance in laboratory. (1, 3, 4, 5)
3. Laboratory tests based on industry standards. (3, 4, 5)

PROGRAM-LEVEL OUTCOMES ADDRESSED

General Education Outcomes
Specify which general education outcomes, if any, are substantially addressed by the course by completing the “Course/Program Assessment Matrix” to show the relationship between course and program outcomes and assessment measures.

Occupational Program Outcomes
Specify which occupational program outcomes, if any, are substantially addressed by the course by completing the “Course/Program Assessment Matrix” to show the relationship between course and program outcomes to assessment measures.
Individual instructors may order this outline as fits the needs of their individual courses. In addition, they may place more emphasis on some areas than on others. What is assured is that this particular list is covered in the course. Other topics may be added to a course as the instructor sees fit, and as time and interest allow. An *asterisk can be used to mark an item as optional.

I. Introduction to automotive painting
   A. Shop safety
   B. Tools of the industry
   C. Materials and disposal methods
   D. Identification and application of paint and refinish materials

II. Safety guidelines and inspection
   A. Hazardous materials and operations
      a. EPA
      b. OSHA
      c. State and local regulations
   B. Inspection of spray environment
      a. Cleanliness
      b. Safety hazards

III. Preparation of plan for paint application

IV. Paint preparation process
   A. Removal of paint finish and preparation for repaint
   B. Masking off of areas to be protected
   C. Preparation and application for primer
   D. Application of primer, primer-surfacer or sealer to areas to be painted
   E. Repair of minor imperfections, sanding, and cleaning of areas for painting
   F. Application of stone chip-resistant coating and restoration of corrosion protection and sealers

V. Inspection, cleaning and preparation of spray guns
   A. Siphon-feed
   B. Pressure-feed
   C. Gravity-feed
   D. HVLP or LVLP types

VI. Vehicle painting process
   A. Determine spray system
   B. Type and color of paint
   C. Preparation of paint for application
D. Application of one coat, two coat or three coat systems to vehicle

VII. Identification of problems and determination of correction methods
   A. Paint application problems
   B. Mixing and chemistry problems
   C. Finishing defects which occur after painting

VIII. Performance of final detail operations on vehicle