

Department:

Automotive Collision & Refinishing Technology

Course Description:

Through a variety of learning and/or shop/lab learning and assessment activities, student in this course will: identify safety and personal health hazards according to OSHA guidelines and the "Right to Know" law; determine the different types of substrates and sanding materials relevant to auto body surface preparation; identify the process to clean and prepare a substrate for paint; distinguish between the properties, uses and manufacturer specifications of metal treatments and primers; distinguish among the various types of spray guns and equipment; explore various paint codes and specifications for use; identify the various paint systems; explore the types of paint defects; distinguish between damage and non-damage related corrosion; and identify final detail procedures.

Course Competencies:

Upon completion of the course, the student should be able to:

1. Use shop safety equipment according to protocol.
2. Demonstrate proper substrate preparation for refinishing.
3. Select appropriate type of undercoating.
4. Use cleaning procedures necessary for refinishing preparation.
5. Protect surface areas to remain unpainted.
6. Apply procedures for mixing, catalyzing and activating paint.
7. Apply paint to a auto body using variety of spray techniques.
8. Demonstrate appropriate high volume and low pressure spray gun operation.
9. Correct the cause and defect in an auto body paint job.
10. Apply color, sanding and buffing techniques to correct surface defects.

Course Content:

- A. Safety Equipment
- B. Substrate preparation
- C. Undercoating
- D. Finishing Preparation
- E. Surface Areas
- F. Mixing, Catalyzing and Activating Paint
- G. Spray Techniques
- H. Spray Gun Operation
- I. Cause and Defect in Auto Body Paint Job
- J. Color, Sanding, and Buffing Techniques

Learning Assessments:

Competencies may be evaluated by multiple measures, including quizzes, tests, project work, demonstrated competence, instructor observation, weekly assignments and/or written papers.

Instructional Materials:

Textbooks: Duffy, J. E. (2016). *Auto Body Repair Technology* (6th ed.). Cengage Learning. ISBN-13: 978-1133702856

Duffy, J. E. (2016). *Tech Manual for Duffy's Auto Body Repair Technology* (6th ed.). Cengage Learning. ISBN-13: 978-1133702863

Guidelines for Requesting Accommodations Based on Documented Disability or Medical Condition

It is the intention of Highland Community College to work toward full compliance with the Americans with Disabilities Act, to make instructional programs accessible to all people, and to provide reasonable accommodations according to the law.

Students should understand that it is their responsibility to self-identify their need(s) for accommodation and that they must provide current, comprehensive diagnosis of a specific disability or medical condition from a qualified professional in order to receive services. Documentation must include specific recommendations for accommodation(s). Documentation should be provided in a timely manner prior to or early in the semester so that the requested accommodation can be considered and, if warranted, arranged.

In order to begin the process all students **must** complete the "Disabilities Self-Identification Form" on our [Disability Services website](#).

This form can also be accessed at the Highland Community College homepage under Students Services/Student Resources/Disability Service or by contacting the Disabilities Coordinator.

A Note on Harassment, Discrimination and Sexual Misconduct

Highland Community College seeks to assure all community members learn and work in a welcoming and inclusive environment. Title VII, Title IX, and College policy prohibit harassment, discrimination and sexual misconduct. Highland Community College encourages anyone experiencing harassment, discrimination or sexual misconduct to talk to report to the Vice President for Student Services, the Human Resources Director or complete an [online report](#) about what happened so that they can get the support they need and Highland Community College can respond appropriately.

There are both confidential and non-confidential resources and reporting options available to you. Highland Community College is legally obligated to respond to reports of sexual misconduct, and therefore we cannot guarantee the confidentiality of a report, unless made to a confidential resource. Responses may vary from support services to formal investigations. As a faculty member, I am required to report incidents of sexual misconduct and thus cannot guarantee confidentiality. I must provide our Title IX coordinator with relevant details such as the names of those involved in the incident. For more information about policies and resources or reporting options, please review our [Equity Grievance Policy](#).