CRT 1210

Division: Career and Technical Education
Department: Collision Repair and Refinishing Technology
Course: CRT 1210
Title: Blending, Tinting, Detailing
Catalog Description:

This course teaches students to remove paint and covers grinding off oil, painting, featheredging, primer-surface block sanding, and paint coloring. It presents preparation and refinishing of a vehicle in single, double, and triple stage finishes. The course includes lecture, demonstrations, and lab and uses Inter-Industry Conference on Auto Collision Repair (I-CAR) curriculum. Students who successfully complete the course will be prepared for Automotive Service Excellence (ASE) certification.

General Education Requirements: N/A
Semesters Offered: TBA
Credit/Time Requirement: Credit: 4; Lecture: 1; Lab: 7
Clock/Hour Requirements: 128
Offered for Non-Credit: No
Prerequisites: CRT 1110

Corequisites: None

Justification:

The I-CAR curriculum is recognized as the leader in collision repair training. It also provides the necessary information to pass the ASE task lists and tests required for certification. This course was approved by the advisory committee and similar courses are taught at Utah Valley State College (CRT 1210) and Salt Lake Community College (AR 1200).

Student Learning Outcomes:

Upon successful completion, students will be able to:

- select reducers/thinners and mix with sealers in proper proportions
- sand, mask, and rub any given panel spot paint repair
- determine correct polish/compound and select proper buffer and bonnet
- mix and spray primer surfacer at precise mill thickness
- tack off sealer and allow to dry
- select appropriate topcoat materials according to sealer used
- apply sealer uniformly with little visible spray wave
- tint color to match

- prepare panel to blend color
- prepare panel to blend clear
- polish blend area when needed.

Content:

Course objectives will be achieved by providing students with instructional and hands-on experiences in the following areas:

- hazard management
- remove paint from a given panel with paint remover and grinder
- condition metal and make ready to apply primer surfacer
- apply primer surfacer at the precise mill thickness
- select proper sand paper
- use correct polish/compound
- select accurate buffer and bonnet
- topcoat refinish materials will be appropriately mixed with additives included and mixed in proper proportions
- use correct reducers/thinners in proper proportions
- block sand to a featheredge
- apply primer surfacer to area
- block sand primed spot
- apply sealer properly and sealer will be allowed to dry and will be tacked off
- apply appropriate topcoat materials
- color matched
- have minimum spray texture, mottling exhaust, and full coverage
- minimum dirt and absences of sags.

General Education Outcomes:

6) Apply computational skills to a variety of contexts.

In this course, students will be required to estimate materials needed, figure reduction with thinners and blending agents, and apply rates and ratios for proper performance.

7) Apply scientific reasoning to a variety of contexts.

Students must understand and apply the procedures by which chemical materials are combined. The process by which the correct mixtures are arrived at will require students to understand the scientific nature of the chemical processes involved.

9) Respond with informed sensitivity to an artistic work or experience.

Students will understand the processes and techniques that must be applied for a quality result. This

understanding of their trade's specific techniques regarding colors, shapes, and textures will prepare them to be able to judge their own work and that of other technicians for quailty against standards and individual preferences.

Key Performance Indicators:

In class:

- Student progress will be evaluated on skill levels demonstrated in lab (70%), quiz scores (10%), and a final comprehensive exam (20%).

Following class:

- Upon completion of the course, safety and competency will be demonstrated in subsequent courses and on custom projects.
- Students will apply the techniques acquired on the job and pass national ASE certification tests.

Representative Text and/or Supplies:

- James E. Duffy, *I-CAR student textbooks and modules,* current editions, Delmar Publishers.

Optimum Class Size: 10
Maximum Class Size: 20

Signatures:

I hereby submit this course syllabus:

Andy Morgan, ,

I hereby find this course consistent with the goals and resources of the Collision Repair and Refinishing Technology Department:

Andy Morgan, , , Chair

I hereby find this course consistent with the goals and resources of the Career and Technical Education Division:

Michael P. Medley, MBA, Assistant Professor, Dean

I have discussed the need for library resources related to this class with the person submitting the syllabus:

Lynn Anderson, MLIS, Technical Services Librarian (Main Campus)

Michelle Olsen, MLS, Campus Librarian (Richfield Campus)