



Multiple Category Scope and Sequence: Scope and Sequence Report For Course Standards and Objectives, Content, Skills, Vocabulary

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Unit	Course Standards and Objectives	Content	Skills	Vocabulary
District Intermediate Collision Refinishing & Painting (47.0623) (District) 2014-2015 Collaboration	Refinishing Safety and Environmental practices (Week 1, 2 Weeks)	explaining information contained in a Material Safety Data Sheet (MSDS)	<ul style="list-style-type: none"> explaining why hazardous material regulations were developed. 	MSDS
		explaining the different sections of a product MSDS. Defining the different personal protective equipment recommended for different tasks in a collision repair facility.	<ul style="list-style-type: none"> explaining information contained in a Material Safety Data Sheet (MSDS). interpreting MSDS code information. explaining the different sections of a product MSDS. identifying different characters and methods of label warnings. knowing the difference between supplier, workplace, and "other means of identification" labels. knowing the requirements for a workplace label. defining the different personal protective equipment recommended for different tasks in a collision repair facility. defining United States and Canadian respirator requirements. test-fitting and properly maintaining respirators.the different types of hazardous wastes in a collision repair facility. different regulations for how to handle hazardous waste. the storage and disposal requirements for hazardous waste. 	Issocianates Fresh air supplied respirator Half mask EPA volital organic compounds 6H Rule
	Automotive Finishes (Week 3, 3 Weeks)	1.What a single stage paint is 2.What a 2 stage paint is 3.What a tri stage paint is	Identify and distinguish between a variety of types of automotive finishes. (4B1) Select the proper finish for repairs and understand why certain repair finish systems and system parts are used. (4B2)	Solvent Resin Pigment

4.The use of solvent paints	Atomization
5.The use of waterborne paints	Adhesion
6.Understand the use of undercoats and top coats	Texture

Demonstrate preparing the surface for

Refinishing

(Week 6, 7 Weeks)  

- identifying zinc coating.
- identifying metal treatment.
- identifying coatings applied by the vehicle maker.
- identifying vehicle maker corrosion protection warranties.
- Mask a vehicle
- Use proper Masking materials
- Select proper undercoats for vehicle
- Understand corrosion protection
- Use wax and grease removers
- Identify type and color of a vehicle
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Identify the type and color of a finish, and plan a system for refinishing a vehicle. (4C1) Remove old paint from a vehicle using a variety of methods. (4C2)

Understand the importance of corrosion protection, the materials used in corrosion protection, and how to clean and treat the metal in the repair area before refinishing. (4C3) Select and apply the proper undercoat materials. (4C4)

Select sanding materials and equipment and know how to sand a vehicle prior to and during the refinishing process. (4C5) Prepare adjacent panels for blending. (4C6) Select and apply the proper sealer to be used on various vehicle seams and joints. (4C7)

Determine where chip-resistant coatings have been used by the vehicle manufacturer, and reapply similar coatings to new or repaired parts. (4C8) Mask a vehicle for spot repairs, panel repairs, or a complete refinish job using a variety of masking materials. (4C9)

Film Build

Hardner

base coat

Measure

Viscosity

Mix Ratio

Zinc

corrosion protection

Chip resistant coatings

Epoxy

self etch

Sealers

Primer
Surfacer

Base coat

Clear coat

mill Thickness

Masking

Understand and demonstrate Application of a

finish

(Week 13, 7 

How to apply top coats

Apply a single stage solid color

Properly identify and prepare the surface for top coat application. (4F1) Understand different types of undercoats and how to apply them. (4F2) Apply both single-stage solid and metallic color finishes. (4F3) Apply both base coat/clear coat solid and metallic color

Weeks) 

Detailing  (Week
20, 5 Weeks) 

professional
development  (Week 25, 5 Weeks) 

Understand and
demonstrate
damage analyzing  (Week 30, 6 Weeks)


Apply a single stage metallic color

finishes. (4F4)

Apply base/clear solid and metallic colors

Remove and install pinstripes, decals, and emblems; select and use the proper tools Understand the importance of thoroughly cleaning the vehicle before and after repairs Describe the processes and importance of proper detailing remove overspray and perform final finishing processes, including compounding and polishing, to improve the quality of the finish.

, Describe the processes and importance of proper detailing, remove overspray and perform final finishing processes, including compounding and polishing, to improve the quality of the finish. (4J1) Understand the importance of thoroughly cleaning the vehicle before and after repairs; select and use proper cleaning products and tools to clean the vehicle exterior, including the engine compartment, tires and wheels, and vinyl tops. (4J2) Describe the various equipment and products used in interior detailing; detail the interior of a vehicle, including cleaning and conditioning of the carpet, upholstery, vinyl, plastic, and leather; remove stains and odors; and clean glass. (4J3) and equipment for these procedures. (4J4)

Compound

Overspray

Polish

Buffer

Cleaners

conditioning

Job application

Resume

communication

set goals

The student will understand the need for professional development.

Manage time

Set and meet goals.

Be organized

Know how to manage time.

how to work with others

Organize personal belongings and lab equipment. Learn to communicate verbally.

Write a resumé

fill out a job application

Explain the importance of planning, describe a sequence for damage analysis, and identify common industry parts names and repair terms. Understand flat rate as it applies to collision repair. Recognize damage to various mechanical systems of the vehicle.

Describe the function and importance of damage reports and general business aspects in the collision repair industry. (5A1) Use a vehicle identification number and an information source to fully identify a vehicle. (5A2)

Estimate

Flat Rate

Damage
Analysis

Explain collision energy management and identify different types of damage. (5A3) Identify and describe a general plan for repairs on a collision damage. (5A4) Explain the importance of planning, describe a sequence for damage analysis, and identify common industry parts names and repair terms. (5A5)

P-pages

R-R

R-I

Recognize damage to various mechanical systems of the vehicle. (5A6) Understand flat rate as it applies to collision repair. (5A7)

Blend

