Automotive Collision Repair

Evaluation Form

2025 Curricular Materials Review

# Publisher information

* Publisher Name:
* Title:
* ISBN #:
* Author:
* Copyright:
* Most Recently Published Edition and Website:
* Materials provided for evaluation:
* Intended Teacher Audience(s):
* Intended Student Audience(s):
* Is this curriculum in a digital format, print format, or both?

# Instruction

## Publishing Company

* Complete the curriculum evaluation form below. Please provide written justification as to how the material meets the criterion along with location references. If a justification requires additional space, please submit a response on an additional document.

## Review Team Member:

* Please use information and attachments to complete the curriculum evaluation form.
* Explain any discrepancies between your findings and the provided information.
* Findings, explanations, and comments should directly reflect the rubric.

Scoring for Alignment to Program Standards:

To evaluate each course’s materials for alignment to [**Automotive Collision Repair**](https://cte.idaho.gov/wp-content/uploads/2024/08/automotive-collision-repair-standards-2024.pdf), analyze the materials against the relevant criteria in the tables below. Instructional materials must meet most criteria and metrics to align with program standards.

| 0 PointsNo Alignment | 1 PointPartial Alignment | 2 PointsHigh Alignment | NANot Applicable |
| --- | --- | --- | --- |
| Standard for Automotive Collision Repair is not evident. | There is some evidence of the Standard for Automotive Collision Repair. | Materials explicitly align to and support the Standard for Automotive Collision Repair through regular and authentic engagement opportunities for students. |  |

# CONTENT STANDARD CTE ACR.1.0: Professional Organizations and Leadership

### Performance Standard CTE ACR.1.1 Student Leadership in Career Technical Student Organizations (CTSO) and Professional Associations

| Student Competencies by Performance Standard | Meets Criteria | Justification: Provide examples from materials as evidence to support each response for this section. Provide descriptions in addition to page numbers. |
| --- | --- | --- |
| 1. CTE ACR.1.1.1 Explore the role of professional organizations and/or associations in the automotive collision and repair industry.
 | 0 1 2 N/A |  |
| 1. CTE ACR.1.1.2 Define the value, role, and opportunities provided through career technical student organizations.
 | 0 1 2 N/A |  |
| 1. CTE ACR.1.1.3 Engage in career exploration and leadership development.
 | 0 1 2 N/A |  |

# CONTENT STANDARD CTE ACR.2.0: careers

### Performance Standard CTE ACR.2.1 Explore Careers

| Student Competencies by Performance Standard | Meets Criteria | Justification: Provide examples from materials as evidence to support each response for this section. Provide descriptions in addition to page numbers. |
| --- | --- | --- |
| 1. CTE ACR.2.1.1 Describe the career opportunities and career paths in the transportation industry and the automotive collision repair industry.
 | 0 1 2 N/A |  |
| 1. CTE ACR.2.1.2 Identify educational and credential requirements for career pathways in the industry.
 | 0 1 2 N/A |  |
| 1. CTE ACR.2.1.3 Research new and emerging vehicle technologies and trends.
 | 0 1 2 N/A |  |

# CONTENT STANDARD CTE ACR.3.0: SAFETY PROCEDURES AND PROPER TOOLS

### Performance Standard CTE ACR.3.1 General Lab Safety Rules and Procedures

| Student Competencies by Performance Standard | Meets Criteria | Justification: Provide examples from materials as evidence to support each response for this section. Provide descriptions in addition to page numbers. |
| --- | --- | --- |
| 1. CTE ACR.3.1.1 Describe general lab/shop safety rules and procedures (i.e., safety test).
 | 0 1 2 N/A |  |
| 1. CTE ACR.3.1.2 Identify general lab/shop safety hazards.
 | 0 1 2 N/A |  |
| 1. CTE ACR.3.1.3 Describe the use and placement of floor jacks and jack stands.
 | 0 1 2 N/A |  |
| 1. CTE ACR.3.1.4 Identify and use proper procedures for safe vehicle lift operation.
 | 0 1 2 N/A |  |
| 1. CTE ACR.3.1.5 Describe proper ventilation procedures for working within the lab/shop area.
 | 0 1 2 N/A |  |
| 1. CTE ACR.3.1.6 Describe marked safety areas.
 | 0 1 2 N/A |  |
| 1. CTE ACR.3.1.7 Identify the location and the types of fire extinguishers and other fire safety equipment.
 | 0 1 2 N/A |  |
| 1. CTE ACR.3.1.8 Describe the procedures for using fire extinguishers and other fire safety equipment.
 | 0 1 2 N/A |  |
| 1. CTE ACR.3.1.9 Describe the location and use of eye wash stations.
 | 0 1 2 N/A |  |
| 1. CTE ACR.3.1.10 Identify the location of the posted evacuation routes.
 | 0 1 2 N/A |  |
| 1. CTE ACR.3.1.11 Comply with the required use of personal protective equipment (PPE) during lab/shop activities.
 | 0 1 2 N/A |  |
| 1. CTE ACR.3.1.12 Wear appropriate clothing for lab/shop activities.
 | 0 1 2 N/A |  |
| 1. CTE ACR.3.1.13 Secure hair and jewelry for lab/shop activities.
 | 0 1 2 N/A |  |
| 1. CTE ACR.3.1.14 Describe safety aspects of supplemental restraint systems (SRS), Advanced Driver Assistance Systems (ADAS), hybrid vehicles, alternative fuel vehicles, electric vehicles, and high-voltage circuits.
 | 0 1 2 N/A |  |
| 1. CTE ACR.3.1.15 Describe the location and purpose of safety data sheets (SDS).
 | 0 1 2 N/A |  |

### Performance Standard CTE ACR.3.2 Tool Identification, Use, and Safety

| Student Competencies by Performance Standard | Meets Criteria | Justification or Comments |
| --- | --- | --- |
| 1. CTE ACR.3.2.1 Identify the correct tool for a specific application or repair.
 | 0 1 2 N/A |  |
| 1. CTE ACR.3.2.2 Describe whether a tool or repair uses standard or metric designation.
 | 0 1 2 N/A |  |
| 1. CTE ACR.3.2.3 Demonstrate safe handling and use of tools.
 | 0 1 2 N/A |  |
| 1. CTE ACR.3.2.4 Describe the need for cleaning, storing, maintaining, and removing (i.e., lockout/tagout) tools and equipment.
 | 0 1 2 N/A |  |
| 1. CTE ACR.3.2.5 Demonstrate use of precision measuring tools (e.g., tram gauges, mil thickness gauge) and when they should be used.
 | 0 1 2 N/A |  |

# CONTENT STANDARD CTE ACR.4.0: DAMAGE ANALYSIS, ESTIMATING, AND CUSTOMER SERVICE

### Performance Standard CTE ACR.4.1 Vehicle Construction and Parts

| Student Competencies by Performance Standard | Meets Criteria | Justification: Provide examples from materials as evidence to support each response for this section. Provide descriptions in addition to page numbers. |
| --- | --- | --- |
| 1. CTE ACR.4.1.1 Identify type of vehicle construction (i.e., unibody, body-on-frame).
 | 0 1 2 N/A |  |
| 1. CTE ACR.4.1.2 Compare the different damage characteristics of unibody, and body-on-frame vehicles.
 | 0 1 2 N/A |  |
| 1. CTE ACR.4.1.3 Identify impact energy absorbing components.
 | 0 1 2 N/A |  |
| 1. CTE ACR.4.1.4 Identify damage to types of steel; determine reparability.
 | 0 1 2 N/A |  |
| 1. CTE ACR.4.1.5 Identify damage to aluminum/magnesium components; determine reparability.
 | 0 1 2 N/A |  |
| 1. CTE ACR.4.1.6 Identify damage to plastic/composite components; determine reparability.
 | 0 1 2 N/A |  |
| 1. CTE ACR.4.1.7 Identify damage to vehicle glass components and repair or replacement procedures.
 | 0 1 2 N/A |  |
| 1. CTE ACR.4.1.8 Identify damage to add-on accessories.
 | 0 1 2 N/A |  |

### Performance Standard CTE ACR.4.2 Damage Analysis

| Student Competencies by Performance Standard | Meets Criteria | Justification or Comments |
| --- | --- | --- |
| 1. CTE ACR.4.2.1 Visually inspect vehicle to determine the extent of damage, (i.e., pre-repair scan).
 | 0 1 2 N/A |  |
| 1. CTE ACR.4.2.2 Access original equipment manufacturer (OEM) repair procedures and recommended repair methods.
 | 0 1 2 N/A |  |
| 1. CTE ACR.4.2.3 Identify one-time use components.
 | 0 1 2 N/A |  |
| 1. CTE ACR.4.2.4 Determine the direction, point(s) of impact, and extent of direct, indirect, and inertia damage.
 | 0 1 2 N/A |  |
| 1. CTE ACR.4.2.5 Gather details of the incident/accident necessary to determine the full extent of vehicle damage (i.e., interior, exterior, mechanical).
 | 0 1 2 N/A |  |
| 1. CTE ACR.4.2.6 Document pre-existing damage to the vehicle and prior repairs.
 | 0 1 2 N/A |  |
| 1. CTE ACR.4.2.7 Disassemble a vehicle for repair planning (i.e., blueprinting).
 | 0 1 2 N/A |  |
| 1. CTE ACR.4.2.8 Identify structural damage, using measuring tools and equipment.
 | 0 1 2 N/A |  |
| 1. CTE ACR.4.2.9 Perform visual inspection of structural and non-structural components.
 | 0 1 2 N/A |  |
| 1. CTE ACR.4.2.10 Determine parts, components, material type(s), and procedures necessary for repair.
 | 0 1 2 N/A |  |

### Performance Standard CTE ACR.4.3 Estimating Procedures

| Student Competencies by Performance Standard | Meets Criteria | Justification or Comments |
| --- | --- | --- |
| 1. CTE ACR.4.3.1 Document customer (i.e., vehicle owner) information.
 | 0 1 2 N/A |  |
| 1. CTE ACR.4.3.2 Document vehicle identification number (VIN) information, including nation of origin, make, model, restraint system, body type, production date, engine type, and assembly plant.
 | 0 1 2 N/A |  |
| 1. CTE ACR.4.3.3 Soap and water wash entire vehicle.
 | 0 1 2 N/A |  |
| 1. CTE ACR.4.3.4 Complete a pre-repair inspection checklist.
 | 0 1 2 N/A |  |
| 1. CTE ACR.4.3.5 Document vehicle options, including trim level, paint code, transmission, accessories, and modifications.
 | 0 1 2 N/A |  |
| 1. CTE ACR.4.3.6 Identify safety systems, determining replacement items.
 | 0 1 2 N/A |  |
| 1. CTE ACR.4.3.7 Apply estimating and parts nomenclature (i.e., terminology).
 | 0 1 2 N/A |  |
| 1. CTE ACR.4.3.8 Describe the estimating sequence.
 | 0 1 2 N/A |  |
| 1. CTE ACR.4.3.9 Apply estimating guide footnotes and headnotes as needed.
 | 0 1 2 N/A |  |
| 1. CTE ACR.4.3.10 Estimate labor price for each operation prescribed (e.g., structural, non-structural, mechanical, refinish).
 | 0 1 2 N/A |  |
| 1. CTE ACR.4.3.11 Select and price OEM, aftermarket, used, and remanufactured parts; verify availability, compatibility, and condition.
 | 0 1 2 N/A |  |
| 1. CTE ACR.4.3.12 Calculate price and source of necessary sublet operations.
 | 0 1 2 N/A |  |
| 1. CTE ACR.4.3.13 Calculate labor value, prices, charges, allowances, or fees for non-included operations and miscellaneous items.
 | 0 1 2 N/A |  |
| 1. CTE ACR.4.3.14 Apply labor overlap deductions, included operations, and additions.
 | 0 1 2 N/A |  |
| 1. CTE ACR.4.3.15 Determine additional material and charges (e.g., adhesives, corrosion protection, hardware).
 | 0 1 2 N/A |  |
| 1. CTE ACR.4.3.16 Determine refinishing material and charges.
 | 0 1 2 N/A |  |
| 1. CTE ACR.4.3.17 Estimate repair, using estimating guide procedure pages (i.e., P-pages).
 | 0 1 2 N/A |  |
| 1. CTE ACR.4.3.18 Identify industry standard software used to create estimates.
 | 0 1 2 N/A |  |
| 1. CTE ACR.4.3.19 Determine the cost effectiveness of the repair by assessing the approximate vehicle value and repair value.
 | 0 1 2 N/A |  |

### Performance Standard CTE ACR.4.4 Customer Relations and Sales Skills

| Student Competencies by Performance Standard | Meets Criteria | Justification or Comments |
| --- | --- | --- |
| 1. CTE ACR.4.4.1 Greet the customer and determine needs, concerns, and expectations, remaining responsive and cooperative throughout the service.
 | 0 1 2 N/A |  |
| 1. CTE ACR.4.4.2 Determine preferred customer communication methods.
 | 0 1 2 N/A |  |
| 1. CTE ACR.4.4.3 Describe basic claims-handling procedures to the customer.
 | 0 1 2 N/A |  |
| 1. CTE ACR.4.4.4 Describe warranty information to the customer.
 | 0 1 2 N/A |  |
| 1. CTE ACR.4.4.5 Estimate the time that the vehicle will be out-of-service.
 | 0 1 2 N/A |  |
| 1. CTE ACR.4.4.6 Describe estimate details to the customer.
 | 0 1 2 N/A |  |

# CONTENT STANDARD CTE ACR.5.0: NON-STRUCTURAL ANALYSIS AND DAMAGE REPAIR (BODY COMPONENTS)

### Performance Standard CTE ACR.5.1 Outer Body Panel Repair, Replacement, and Adjustments

| Student Competencies by Performance Standard | Meets Criteria | Justification: Provide examples from materials as evidence to support each response for this section. Provide descriptions in addition to page numbers. |
| --- | --- | --- |
| 1. CTE ACR.5.1.1 Analyze damage, according to the damage report, to determine appropriate methods for overall repair.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.1.2 Document a repair plan.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.1.3 Inspect, remove, label, store, and reinstall exterior trim and moldings.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.1.4 Inspect, remove, label, store, and reinstall interior trim and components.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.1.5 Inspect, remove, label, store, and reinstall body panels and components that may interfere with or be damaged during repair.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.1.6 Inspect, remove, label, store, and reinstall vehicle mechanical and electrical components that may interfere with or be damaged during repair.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.1.7 Protect panels, glass, interior parts, and other vehicles adjacent to the repair area.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.1.8 Prepare damaged area using water-based and solvent-based cleaners.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.1.9 Remove corrosion protection, undercoatings, sealers, and other protective coatings as necessary to perform repairs.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.1.10 Inspect, remove, and reinstall repairable plastics and other components for off-vehicle repair.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.1.11 Inspect, remove, and replace seatbelt and shoulder harness assembly and components.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.1.12 Inspect restraint system mounting areas for damage; repair as needed.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.1.13 Test and verify proper operation of seatbelt.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.1.14 Clean, inspect, and prepare reusable fasteners.
 | 0 1 2 N/A |  |

### Performance Standard CTE ACR.5.2 Metal Finishing and Body Filling Techniques

| Student Competencies by Performance Standard | Meets Criteria | Justification or Comments |
| --- | --- | --- |
| 1. CTE ACR.5.2.1 Identify substrate, determining the best repair method.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.2.2 Repair surface irregularities on a damaged body panel.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.2.3 Demonstrate hammer-and-dolly techniques and shrinking techniques.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.2.4 Demonstrate glue tab pulling techniques.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.2.5 Prepare surface per OEM specifications.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.2.6 Identify various types of body fillers.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.2.7 Prepare and apply body filler.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.2.8 Rough sand body filler to contour and finish sand.
 | 0 1 2 N/A |  |

### Performance Standard CTE ACR.5.3 Moveable Glass and Hardware Components

| Student Competencies by Performance Standard | Meets Criteria | Justification or Comments |
| --- | --- | --- |
| 1. CTE ACR.5.3.1 Inspect, adjust, and repair or replace window regulators, run channels, glass, power mechanisms, and related controls.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.3.2 Inspect, adjust, and repair, remove, reinstall, or replace weather-stripping.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.3.3 Cycle electrical components as needed.
 | 0 1 2 N/A |  |

### Performance Standard CTE ACR.5.4 Metal Welding and Cutting Techniques

| Student Competencies by Performance Standard | Meets Criteria | Justification or Comments |
| --- | --- | --- |
| 1. CTE ACR.5.4.1 Identify weldable and non-weldable substrates used in vehicle construction.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.4.2 Weld and cut high-strength steel and other steels (e.g., plasma).
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.4.3 Determine the correct GMAW (MIG) welder type, electrode/wire type, diameter, and gas to be used in a specific welding situation.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.4.4 Set up and adjust the GMAW (MIG) welder to "tune" for proper electrode stickout, voltage, polarity, flow rate, and wire-feed speed required for the substrate that will be welded.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.4.5 Store, handle, and install high-pressure gas cylinders.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.4.6 Determine work clamp (ground) location and attach.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.4.7 Perform welds in the flat, horizontal, vertical, and overhead positions, using the proper angle of the gun to the joint and direction of gun travel per weld type.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.4.8 Protect adjacent panels, glass, and vehicle interior from welding and cutting operations.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.4.9 Protect computers and other electronic control modules during welding procedures.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.4.10 Clean and prepare the metal that will be welded, assure good metal fit-up, apply weld-through primer if recommended, clamp or tack as required.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.4.11 Determine the best joint type (e.g., butt weld with backing, lap) for various welds.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.4.12 Determine the type of weld (e.g., continuous, stitch weld, plug) for each specific welding operation.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.4.13 Perform the following welds: continuous, plug, butt weld with and without backing, and fillet.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.4.14 Perform visual and destructive tests on each weld type.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.4.15 Identify the causes of various welding defects, making necessary adjustments.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.4.16 Identify cause of contact tip burn-back and failure of wire to feed, making necessary adjustments.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.4.17 Identify different methods of attaching non-structural components (e.g., squeeze-type resistant spot welds [STRSW], riveting/rivet bonding, adhesive, silicon bronze).
 | 0 1 2 N/A |  |

### Performance Standard CTE ACR.5.5 Plastic and Adhesives

| Student Competencies by Performance Standard | Meets Criteria | Justification or Comments |
| --- | --- | --- |
| 1. CTE ACR.5.5.1 Identify the types of plastics; determine repairability and procedures.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.5.2 Clean and prepare the surface of plastic parts.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.5.3 Demonstrate one-sided, two-sided, and tab repair, using adhesive and nitrogen welding.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.5.4 Repair rigid, semi-rigid, or flexible plastic panels.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.5.5 Remove or repair damaged areas from rigid exterior composite panels.
 | 0 1 2 N/A |  |
| 1. CTE ACR.5.5.6 Demonstrate the proper cleanup procedures for specific adhesives.
 | 0 1 2 N/A |  |

# CONTENT STANDARD CTE ACR.6.0: STRUCTURAL ANALYSIS

### Performance Standard CTE ACR.6.1 Inspection and Repair Techniques

| Student Competencies by Performance Standard | Meets Criteria | Justification: Provide examples from materials as evidence to support each response for this section. Provide descriptions in addition to page numbers. |
| --- | --- | --- |
| 1. CTE ACR.6.1.1 Describe diagnostic techniques for structural damage.
 | 0 1 2 N/A |  |
| 1. CTE ACR.6.1.2 Describe how vehicles are attached to anchoring devices and subsequent restoration of anchoring locations.
 | 0 1 2 N/A |  |
| 1. CTE ACR.6.1.3 Describe the extent of the direct and indirect damage and the direction of impact.
 | 0 1 2 N/A |  |
| 1. CTE ACR.6.1.4 Document the methods and sequence of structural repair.
 | 0 1 2 N/A |  |
| 1. CTE ACR.6.1.5 Identify crush/collapse zones.
 | 0 1 2 N/A |  |
| 1. CTE ACR.6.1.6 Identify steering and suspension collision damage.
 | 0 1 2 N/A |  |

# CONTENT STANDARD CTE ACR.7.0: PAINTING AND REFINISHING TECHNIQUES

### Performance Standard CTE ACR.7.1 Safety Precautions

| Student Competencies by Performance Standard | Meets Criteria | Justification or Comments |
| --- | --- | --- |
| 1. CTE ACR.7.1.1 Identify and take necessary precautions with hazardous operations and materials according to federal, state, and local regulations.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.1.2 Identify safety and personal health hazards according to the Occupational Safety and Health Administration (OSHA) guidelines and the “Right to Know Law.”
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.1.3 Inspect spray environment and equipment to ensure compliance with federal, state, and local regulations, and for safety and cleanliness hazards.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.1.4 Describe the procedures for safely using a National Institute for Occupational Safety and Health (NIOSH) approved air purifying respirator.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.1.5 Describe procedures for safely using a NIOSH approved supplied air (i.e., fresh air makeup) respirator system.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.1.6 Perform maintenance on respirators in accordance with OSHA regulation and applicable state and local regulations.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.1.7 Select and use appropriate PPE in the painting and refinishing environment.
 | 0 1 2 N/A |  |

### Performance Standard CTE ACR.7.2 Surface Preparation Techniques

| Student Competencies by Performance Standard | Meets Criteria | Justification or Comments |
| --- | --- | --- |
| 1. CTE ACR.7.2.1 Inspect, remove, store, and replace exterior trim and components necessary for surface preparation.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.2.2 Wash with soap and water the entire vehicle, using appropriate cleaner to remove contaminants.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.2.3 Identify type of finish, surface condition, and film thickness.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.2.4 Develop a plan for refinishing, using a total product system.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.2.5 Strip paint to bare substrate (i.e., paint removal).
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.2.6 Dry sand or wet sand areas to be refinished.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.2.7 Featheredge areas to be refinished.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.2.8 Apply suitable metal treatment or primer in accordance with total product systems.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.2.9 Mask and protect other areas that will not be refinished.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.2.10 Identify types of primers and appropriate application (e.g., UV, urethane, epoxy).
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.2.11 Mix primer-surfacer or primer-sealer.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.2.12 Identify a complementary color or shade of undercoat to improve coverage.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.2.13 Apply primer to surface of repaired area.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.2.14 Apply two-component finishing filler to minor surface imperfections.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.2.15 Block sand area to which primer-surface has been applied.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.2.16 Dry sand area to which finishing filler has been applied.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.2.17 Remove dust from area to be refinished, including cracks or moldings of adjacent areas.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.2.18 Clean area to be refinished, using a final cleaning solution.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.2.19 Remove, with a tack rag, any dust or lint particles from the area to be refinished.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.2.20 Apply suitable sealer to the area being refinished.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.2.21 Scuff sand to remove nibs or imperfections from a sealer.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.2.22 Apply stone chip-resistant coating.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.2.23 Restore caulking and seam sealers to repaired areas.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.2.24 Prepare adjacent panels for blending.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.2.25 Identify the types of rigid, semi-rigid or flexible plastic parts to be refinished, determining the materials needed, preparation, and refinishing procedures.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.2.26 Identify metal parts to be refinished, determining the materials needed, preparation, and refinishing procedures.
 | 0 1 2 N/A |  |

### Performance Standard CTE ACR.7.3 Spray Gun and Related Equipment Operations

| Student Competencies by Performance Standard | Meets Criteria | Justification or Comments |
| --- | --- | --- |
| 1. CTE ACR.7.3.1 Inspect, clean, and determine the condition of spray guns and related equipment (e.g., air hoses, regulators, air lines, air source) in the spray environment.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.3.2 Select spray gun and setup (e.g., fluid needle, nozzle, cap) for applied product.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.3.3 Test and adjust spray gun, using fluid, air, and pattern control valves.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.3.4 Demonstrate the operation of spray equipment.
 | 0 1 2 N/A |  |

### Performance Standard CTE ACR.7.4 Paint Mixing, Matching, and Application

| Student Competencies by Performance Standard | Meets Criteria | Justification or Comments |
| --- | --- | --- |
| 1. CTE ACR.7.4.1 Identify color code by manufacturer’s vehicle information label.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.4.2 Shake, stir, reduce, catalyze/activate, and strain refinish materials.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.4.3 Apply finish, using appropriate spray techniques (e.g., gun arc, angle, distance, travel speed, spray pattern overlap) for the applied finish.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.4.4 Create sprayout panel and check for color match.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.4.5 Apply single-stage topcoat.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.4.6 Apply basecoat/clear coat for panel blending and panel refinishing.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.4.7 Apply basecoat/clear coat for overall refinishing.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.4.8 Remove nibs or imperfections from basecoat.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.4.9 Refinish flexible plastic parts.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.4.10 Demonstrate knowledge of multi-stage coats for panel blending and overall refinishing.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.4.11 Create letdown panel for multi-stage finishes.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.4.12 Mix paint, using a formula.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.4.13 Identify poor hiding colors, determining necessary action.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.4.14 Identify alternative color formula to achieve a blended match (e.g., color chips, spectrophotometers).
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.4.15 Identify the materials equipment and the preparation differences between solvent and waterborne technologies.
 | 0 1 2 N/A |  |

### Performance Standard CTE ACR.7.5 Paint Defects—Causes and Cures

| Student Competencies by Performance Standard | Meets Criteria | Justification or Comments |
| --- | --- | --- |
| 1. CTE ACR.7.5.1 Identify methods to prevent paint defects (e.g., booth maintenance, air compressor maintenance, employee cleanliness, vehicle cleanliness).
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.5.2 Identify blistering (i.e., raising of the paint surface, air entrapment); determine the cause(s) and correct the condition.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.5.3 Identify a dry spray appearance in the paint surface; determine the cause(s) and correct the condition.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.5.4 Identify the presence of fish-eyes (i.e., crater-like openings) in the finish; determine the cause(s) and correct the condition.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.5.5 Identify lifting; determine the cause(s) and correct the condition.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.5.6 Identify clouding (i.e., mottling and streaking in metallic finishes); determine the cause(s) and correct the condition.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.5.7 Identify orange peel; determine the cause(s) and correct the condition.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.5.8 Identify overspray; determine the cause(s) and correct the condition.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.5.9 Identify solvent popping in freshly painted surface; determine the cause(s) and correct the condition.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.5.10 Identify sags and runs in paint surface; determine the cause(s) and correct the condition.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.5.11 Identify sanding marks or sand scratch swelling; determine the cause(s) and correct the condition.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.5.12 Identify contour mapping/edge mapping while finish is drying; determine the cause(s) and correct the condition.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.5.13 Identify color difference (i.e., off-shade); determine the cause(s) and correct the condition.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.5.14 Identify tape tracking; determine the cause(s) and correct the condition.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.5.15 Identify low-gloss condition; determine the cause(s) and correct the condition.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.5.16 Identify poor adhesion; determine the cause(s) and correct the condition.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.5.17 Identify paint cracking (e.g., shrinking, splitting, crow’s feet or line-checking, micro-checking); determine the cause(s) and correct the condition.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.5.18 Identify corrosion; determine the cause(s) and correct the condition.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.5.19 Identify dirt or dust in the paint surface; determine the cause(s) and correct the condition.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.5.20 Identify water spotting; determine the cause(s) and correct the condition.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.5.21 Identify finish damage caused by bird droppings, tree sap, and other natural causes; correct the condition.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.5.22 Identify finish damage caused by airborne contaminants (e.g., acids, soot, rail dust, other industrial-related causes); correct the condition.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.5.23 Identify die-back conditions (i.e., dulling of the paint film showing haziness); determine the cause(s) and correct the condition.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.5.24 Identify chalking (i.e., oxidation); determine the cause(s) and correct the condition.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.5.25 Identify bleed-through (i.e., staining); determine the cause(s) and correct the condition.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.5.26 Identify pin-holing; determine the cause(s) and correct the condition.
 | 0 1 2 N/A |  |
| 1. CTE ACR.7.5.27 Identify buffing-related imperfections (e.g., swirl marks, wheel burns); correct the condition.
 | 0 1 2 N/A |  |

# CONTENT STANDARD CTE ACR.8.0: REASSEMBLY AND TESTING

### Performance Standard CTE ACR.8.1 Predelivery Process

| Student Competencies by Performance Standard | Meets Criteria | Justification: Provide examples from materials as evidence to support each response for this section. Provide descriptions in addition to page numbers. |
| --- | --- | --- |
| 1. CTE ACR.8.1.1 Reapply corrosion protection per OEM recommendations (e.g., cavity wax, undercoat, seam sealer, thin-film technology).
 | 0 1 2 N/A |  |
| 1. CTE ACR.8.1.2 Demonstrate reassembly procedures and test and verify systems (e.g., lighting, windows, doors, safety sensors).
 | 0 1 2 N/A |  |
| 1. CTE ACR.8.1.3 Describe ADAS system check per OEM recommendations.
 | 0 1 2 N/A |  |
| 1. CTE ACR.8.1.4 Describe post-scan and determine recalibrations.
 | 0 1 2 N/A |  |
| 1. CTE ACR.8.1.5 Check for water leaks, dust leaks, and wind noise.
 | 0 1 2 N/A |  |
| 1. CTE ACR.8.1.6 Torque lug nuts to OEM specifications if wheel was removed.
 | 0 1 2 N/A |  |

### CONTENT STANDARD CTE ACR.9.0: detailing

### Performance Standard CTE ACR.9.1 Detail Procedures

| Student Competencies by Performance Standard | Meets Criteria | Justification or Comments |
| --- | --- | --- |
| 1. CTE ACR.9.1.1 Apply decals, transfers, tapes, and pinstripes.
 | 0 1 2 N/A |  |
| 1. CTE ACR.9.1.2 Sand, buff, and polish fresh or existing finish to remove defects, as required.
 | 0 1 2 N/A |  |
| 1. CTE ACR.9.1.3 Clean interior, exterior, and glass.
 | 0 1 2 N/A |  |
| 1. CTE ACR.9.1.4 Clean body openings (e.g., door jambs, edges).
 | 0 1 2 N/A |  |
| 1. CTE ACR.9.1.5 Remove overspray.
 | 0 1 2 N/A |  |
| 1. CTE ACR.9.1.6 Perform vehicle cleanup.
 | 0 1 2 N/A |  |
| 1. CTE ACR.9.1.7 Complete quality control, using a checklist.
 | 0 1 2 N/A |  |

Scoring for Best Practices and Assessment

| 0 PointsNo Alignment | 1 PointPartial Alignment | 2 PointsHigh Alignment | NANot Applicable |
| --- | --- | --- | --- |
| There is no evidence of the teaching practice. | The teaching practice is embedded in some lessons. | Materials regularly embed supports for teachers to implement best practices and assessment.  |  |

Scoring for Alignment to Best Practices and Assessment:

| Best Practices and Assessments | Meets Criteria | Justification or Comments |
| --- | --- | --- |
| 1. Materials contain clear statements and explanations of purpose, goals, and learning outcomes.
 | 0 1 2 N/A |  |
| 1. Materials are systematic and sequential – prerequisite skills taught first and vertically aligned appropriately.
 | 0 1 2 N/A |  |
| 1. Materials include formative and summative assessments and/or test data banks that allow the instructor to edit materials when appropriate.
 | 0 1 2 N/A |  |
| 1. Digital materials and assessments are easy to edit and revise and access to distribute and/or print.
 | 0 1 2 N/A |  |

Scoring for Additional Indicators of Quality Materials

| 0 PointsNo Alignment | 1 PointPartial Alignment | 2 PointsHigh Alignment | NANot Applicable |
| --- | --- | --- | --- |
| There is no evidence of differentiation elements or engaging tools.  | There is some evidence of differentiation elements or engaging tools. | Materials include differentiation elements as well as engaging tools. |  |

Scoring for Alignment to Additional Indicators of Quality Materials:

| Indicators of Quality Materials | Meets Criteria | Justification or Comments |
| --- | --- | --- |
| 1. Materials provide instructional strategies to accommodate the learning differences of all students.
 | 0 1 2 N/A |  |
| 1. Materials are available in language(s) other than English.
 | 0 1 2 N/A |  |
| 1. The material has an aesthetically appealing appearance.
 | 0 1 2 N/A |  |
| 1. Digital and print materials are consistently formatted, visually focused, and uncluttered for efficient use.
 | 0 1 2 N/A |  |
| 1. The illustrations clearly cross-reference the text, are directly relevant to the content (not simply decorative), and promote thinking, discussion, and problem solving.
 | 0 1 2 N/A |  |

Scoring for Best Practices in the Use of Technology

| 0 PointsNo Alignment | 1 PointPartial Alignment | 2 PointsHigh Alignment | NANot Applicable |
| --- | --- | --- | --- |
| There is no evidence of best practices in using technology.  | There is some evidence of best practices in using technology. | Materials include best practices in using technology. |  |

Use of Technology

| **Use of Technology** | **Justification: Provide examples from materials as evidence to support each response for this section. Provide descriptions, not just page numbers.** |
| --- | --- |
| 1. Technology and digital media support, extend, and enhance learning experiences.
 |  |
| 1. The material has “platform neutral” technology (i.e., cloud based) and availability for networking.
 |  |
| 1. The material has a user-friendly and interactive interface allowing the user to control (shift among activities).
 |  |

For Questions Contact

Content & Curriculum – Curricular Materials

Idaho Department of Education

650 W State Street, Boise, ID 83702

208 332 6800 | www.sde.idaho.gov