



*Correlation of*  
**Auto Collision Repair and Refinishing, 2e, ©2017**  
to the  
**Texas Essential Knowledge and Skills (TEKS)**  
**Course: §130.455 Basic Collision Repair and Refinishing (MLC 9460)**

The following chart lists the Knowledge and Skills Statements and Student Expectations for the Texas Essential Knowledge and Skills (TEKS) for Basic Collision Repair and Refinishing. For each Student Expectation, the corresponding pages in *Auto Collision Repair and Refinishing* are listed.

Student Expectations	Textbook Page(s)
<b>(1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:</b>	
(1) (A) demonstrate awareness of workplace safety and environmental responsibilities in automotive collision and refinishing and understand the use of personal protective equipment	18–38, 318, 753
(1) (B) identify employment opportunities, including entrepreneurship opportunities, and certification requirements for the fields of collision repair and refinishing	10–14, 852–858, 864–865
(1) (C) review the principles of group participation and leadership related to citizenship and career preparation	11–13, 862, 866–868
(1) (D) identify employers' expectations and appropriate work habits	11–13, 29–35, 865–867
(1) (E) review the competencies related to resources, information systems, and technology	96–98, 363, 661, 830–831
(1) (F) apply reasoning skills to a variety of workplace situations in order to make ethical decisions	841, 867
<b>(2) The student relates core academic skills to the requirements of collision repair and refinishing technology. The student is expected to:</b>	
(2) (A) apply effective oral and written communication skills with individuals from various cultures such as fellow workers, management, and customers	866
(2) (B) use technical writing skills to complete collision repair and refinishing orders and related paperwork	824–825, 842–845

<b>Student Expectations</b>	<b>Textbook Page(s)</b>
(2) (C) locate and read documents such as service and repair information, technical bulletins, specifications, schematics, and parts catalogs	96–98, 830–835
<b>(3) The student understands the technical knowledge and skills of basic collision repair and refinishing systems. The student is expected to:</b>	
(3) (A) demonstrate an understanding of basic types of repair procedures used in the auto collision industry	7–10, 824–825
(3) (B) demonstrate an understanding of basic preparation, application, and refinishing with various paint products	629–633, 651–652, 656–658, 680–689, 753–766
(3) (C) estimate parts and labor costs on collision repair and refinishing orders	826–828, 830–841
<b>(4) The student knows the basic function and application of tools, equipment, technologies, and materials used in collision repair and refinishing services. The student is expected to:</b>	
(4) (A) identify hand and power tools and equipment commonly used in collision repair and refinishing	83–96, 147–166, 318–337, 596–624
(4) (B) identify proper welding and cutting techniques and processes used in collision repair	117–136, 138–139, 240–244, 280–282
(4) (C) identify environmentally hazardous materials and appropriate handling methods used in collision repair and refinishing technologies	21–22, 33–34, 36–38, 613
(4) (D) demonstrate awareness of new and emerging collision repair and refinishing technologies	47–48, 167, 169, 202–203, 611–612, 629, 636–637
<b>(5) The student reviews the technical knowledge and skills of collision repair and refinishing. The student is expected to:</b>	
(5) (A) demonstrate the safe use of various hand and power tools and equipment commonly used in collision repair and refinishing	31–32, 83–96, 146–166, 275, 318–337, 596–606
(5) (B) identify types of vehicle construction materials and associated repair methods	44–49, 179–195, 202–203, 271, 276–291, 296–297
(5) (C) remove paint from the damaged area of a body panel	647, 703–706, 710–713
(5) (D) identify and repair surface irregularities on a damaged body panel	175–176, 179–195, 202–203, 238–239
(5) (E) demonstrate hammer and dolly techniques for dent repair	182–183, 188, 191, 193–194
(5) (F) prepare damaged area using water-based and solvent-based cleaners	277, 702, 713, 779–780

Student Expectations	Textbook Page(s)
(5) (G) identify, prepare, and apply body filler	166–167, 196–202
(5) (H) rough sand body filler to contour panel and finish sand for the application of primer	198–201, 643, 722
(5) (I) demonstrate the proper preparation, application, and refinishing of various paint products	656–668, 737, 753–766, 783–789
(5) (J) apply finish using appropriate spray techniques such as gun arc, angle, distance, travel speed, and spray pattern overlap for the finish being applied	679–689
(5) (K) apply basecoat and clear coat for overall refinishing	635–636, 755, 758
(5) (L) sand, buff, and polish fresh or existing finish to remove defects as required	600, 652, 768–773, 794–799, 810–813