

MODULE MEC2190: SURFACE PREPARATION 2**Level:** Intermediate**Theme:** Suspension and Structural Systems**Prerequisite:** MEC1190 Surface Preparation 1**Module Description:** Students perform advanced surface preparations.**Module Parameters:** Access to auto body hand/power tools related resources.**Curriculum and Assessment Standards**

Module Learner Expectations	Assessment Criteria and Conditions	Suggested Emphasis
<p><i>The student will:</i></p> <ul style="list-style-type: none"> • demonstrate safe practices when performing advanced surface preparation • explain materials and practices for performing advanced surface preparation 	<p><i>Assessment of student achievement should be based on:</i></p> <ul style="list-style-type: none"> • observed performance related to: <ul style="list-style-type: none"> – following safe practices and use of proper personal protective equipment – following shop routines – use of WHMIS bulletins with respect to surface preparation. <p><i>Assessment Tool</i> <i>Task Assessment Checklist: Surface Preparation 2, Part 1, MEC2190–1</i></p> <p><i>Standard</i> <i>Performance rating of 2 on each criteria</i></p> <ul style="list-style-type: none"> • observed performance in: <ul style="list-style-type: none"> – listing and identifying metals/metal condition and respective preparation techniques – listing and identifying plastics and respective preparation techniques – listing abrasives and identifying application – listing and describing chemical use in surface preparation – listing coatings and application techniques and processes. <p><i>Assessment Tool</i> <i>Task Assessment Checklist: Surface Preparation 2, Part 2, MEC2190–1</i></p> <p><i>Standard</i> <i>Performance rating of 2 on each criteria</i></p>	<p>10</p> <p>40</p>

MODULE MEC2190: SURFACE PREPARATION 2 (continued)

Module Learner Expectations	Assessment Criteria and Conditions	Suggested Emphasis
<p><i>The student will:</i></p> <ul style="list-style-type: none"> carry out an advanced surface preparation 	<p><i>Assessment of student achievement should be based on:</i></p> <ul style="list-style-type: none"> observed performance related to: <ul style="list-style-type: none"> analyzing and determining preparation process use of chemical preparation application of coatings compounding a surface. <p><i>Assessment Tool</i> <i>Task Assessment Checklist: Surface Preparation 2, Part 3, MEC2190-1</i> <i>Illustrative Example: Surface Preparation 2, MEC2190-2</i></p> <p><i>Standard</i> <i>Performance rating of 2 on each criteria</i></p>	50
<ul style="list-style-type: none"> demonstrate basic competencies. 	<ul style="list-style-type: none"> observations of individual effort and interpersonal exploration during the learning process. <p><i>Assessment Tool</i> <i>Basic Competencies Reference Guide and any assessment tools noted above</i></p>	Integrated throughout

Concept	Specific Learner Expectations	Notes
Health/Safety Hazards	<p><i>The student should:</i></p> <ul style="list-style-type: none"> demonstrate safe practices in relation to chemicals. 	<p>Personal, property and environment.</p> <p>WHMIS; check with supplier for handling procedures.</p>
Identify/Analyze	<ul style="list-style-type: none"> identify specific metal treatments, such as: <ul style="list-style-type: none"> aluminum plymetal galvanized other identify equipment, materials and accepted procedures in compounding surfaces match adhesion promoters to type of plastic being finished 	<p>Aluminum; plymetal; galvanized; new anodized aluminum.</p> <p>Prepare metal replacement parts.</p> <p>Spot repair; adjacent panel matching.</p>

MODULE MEC2190: SURFACE PREPARATION 2 (continued)

Concept	Specific Learner Expectations	Notes
Identify/Analyze (continued)	<p><i>The student should:</i></p> <ul style="list-style-type: none"> • use correct cleaning agent to match plastics and product used • identify and describe custom masking methods. 	<p>Flexible plastic; rigid plastic; interior/exterior plastics; cleaners. Flames; elaborate striping.</p>
Inspect/Repair	<ul style="list-style-type: none"> • demonstrate how to: <ul style="list-style-type: none"> – prepare bare metal – clean and treat surface rust as conditions dictate – compound surfaces – prime plastic and metal components – custom mask a small project. 	<p>Spot blasting; sanding; chemical treatment.</p> <p>Flexible filling primer; special adhesion promoters.</p>
Careers	<ul style="list-style-type: none"> • identify further education, work conditions and opportunities. 	