

REPAIRING PLASTIC

Pierce County Careers Connection Dual Credit Articulation Agreement

Upon completion of high school courses equivalent to the following competencies:

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| <p><input type="checkbox"/> Identify Various Plastics
Given oral discussion and/or practical application problems, and/or a written test, and appropriate reference materials, identify various plastic:</p> <ul style="list-style-type: none"> • Thermostat • Thermoplastic • Composite • Sheet molded compounds • Fiber reinforced plastics | <p><input type="checkbox"/> Make a Two-sided Weld on a Urethane Bumper Cover
Given an airless plastic welder, make a two-sided weld on a urethane bumper cover using accompanying equipment and appropriate personal safety equipment.
Demonstrate appropriate use of the following tools:</p> <ul style="list-style-type: none"> • Plastic cleaner • Aluminum body tape • Plastic squeegee or paint paddle • Die grinder • ¼ inch drill with cutter bit • Small grinder • Rotary file • Slow speed grinder and #60 or #80 grit disc • Flexible filler • #180 or #220 grit sandpaper <p><i>All procedural steps must be followed; finished panel/product must be secure; contours must be smooth.</i></p> |
| <p><input type="checkbox"/> Make a One-sided ABS Weld
Given an airless plastic welder, make a one-sided ABS weld using accompanying equipment, ABS materials and appropriate personal safety equipment.
Demonstrate appropriate use of the following tools:</p> <ul style="list-style-type: none"> • Plastic cleaner • Aluminum body tape • Plastic squeegee or paint paddle • Die grinder • ¼ inch drill with cutter bit • Small grinder • Rotary file • Slow speed grinder and #80 grit disc or single edged razor blade • #320 grit sandpaper <p><i>All procedural steps must be followed; finished panel/product must be secure; contours must be smooth.</i></p> | <p><input type="checkbox"/> Make a Two-part Repair of a Polyolefin Bumper Cover with Backside Reinforcement
Given bumper cover requiring repair, make a two-part epoxy repair of a polyolefin bumper cover with backside reinforcement using accompanying equipment and appropriate safety equipment.
Demonstrate appropriate use of the following tools:</p> <ul style="list-style-type: none"> • Plastic cleaner • Slow speed grinder and a 3-inch #36 grit disc • Sander • (#80, #180, and #240) grit sandpaper • Adhesion promoter • Flexible epoxy adhesive or urethane based materials • Squeegee or plastic spreader • Fiberglass cloth • Safety goggle or glasses with side shields • Work gloves <p><i>All procedural steps must be followed; cover will appear smooth, and ready for finish.</i></p> |
| <p><input type="checkbox"/> Make a Two-sided Polypropylene Weld
Given an airless plastic welder, make a two-sided polypropylene weld using accompanying equipment, polypropylene materials and appropriate personal safety equipment.
Demonstrate appropriate use of the following tools:</p> <ul style="list-style-type: none"> • Plastic cleaner • Aluminum body tape • Plastic squeegee or paint paddle • Die grinder • ¼ inch drill with cutter bit • Small grinder • Rotary file • Slow speed grinder and #80 grit disc or single edged razor blade <p><i>All procedural steps must be followed; finished panel/product must be secure; contours must be smooth.</i></p> | |

A student earning a “C” grade or better may earn college credit at the following college:

<u>College</u>	<u>Course</u>	<u>Credits</u>
Bates Technical College	AUTOB 207	2
	AUTOB 208 (CIP Code: 470603)	5