

TASK ASSESSMENT CHECKLIST: Laboratory Practices

MEC1010-1

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| STANDARD: | Students working at STANDARD must demonstrate a performance rating of 2 for safety and 1 for the remainder of the criteria. |
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| TASK PERFORMANCE CRITERIA | | Standard | Observed Rating |
|----------------------------------|--|-----------------|------------------------|
| Part 1 | <p><i>The student:</i></p> <p>Safety</p> <ul style="list-style-type: none"> <input type="checkbox"/> follows established shop/lab procedures <input type="checkbox"/> organizes and works in an orderly manner <input type="checkbox"/> selects and uses tools safely <input type="checkbox"/> maintains a safe and tidy workplace | 2 | _____ |
| Part 2 | <p>Modes of Transportation</p> <ul style="list-style-type: none"> <input type="checkbox"/> lists common modes of transportation related to land, air, sea and space travel <input type="checkbox"/> describes systems common to all modes of transportation; e.g.: <ul style="list-style-type: none"> - propulsion - guidance and control - suspension/structural systems | 1 | _____ |
| Part 3 | <p>Researches, Designs and Builds</p> <ul style="list-style-type: none"> <input type="checkbox"/> selects and uses resources to research project <input type="checkbox"/> designs a concept vehicle <input type="checkbox"/> builds a concept vehicle <input type="checkbox"/> tests and evaluates concept vehicle | 1 | _____ |

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| <p>Rating Scale:</p> <p>4 Exceeds defined outcomes. Plans and solves problems effectively and creatively in a self-directed manner. Tools, materials and/or processes are selected and used efficiently, effectively and with confidence. <i>Quality, particularly details and finishes, and productivity are consistent and exceed standards. Leads others to contribute team goals.</i></p> <p>3 Meets defined outcomes. Plans and solves problems in a self-directed manner. Tools, materials and/or processes are selected and used efficiently and effectively. <i>Quality and productivity are consistent. Works cooperatively and contributes ideas and suggestions that enhance team effort.</i></p> <p>2 Meets defined outcomes. Plans and solves problems with limited assistance. Tools, materials and/or processes are selected and used appropriately. <i>Quality and productivity are reasonably consistent. Works cooperatively to achieve team goals.</i></p> <p>1 Meets defined outcomes. Follows a guided plan of action. A limited range of tools, materials and/or processes are used appropriately. <i>Quality and productivity are reasonably consistent. Works cooperatively.</i></p> <p>0 Has not completed defined outcomes. Tools, materials and/or processes are used inappropriately.</p> | <p>REFLECTIONS/COMMENTS:</p> |
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TASK ASSESSMENT CHECKLIST: Vehicle Service & Care

MEC1020-1

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| STANDARD: | Students working at STANDARD must demonstrate a performance rating of 2 for safety and 1 for the remainder of the criteria. |
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| TASK PERFORMANCE CRITERIA | | Standard | Observed Rating |
|---------------------------|---|----------|-----------------|
| Part 1 | <p><i>The student:</i></p> <p>Safety</p> <input type="checkbox"/> follows established shop/lab procedures <input type="checkbox"/> uses prescribed personal protective equipment <input type="checkbox"/> fulfils given clean-up responsibilities <input type="checkbox"/> follows proper lifting, handling and storage procedures | 2 | |
| Part 2 | <p>Service Schedule</p> <input type="checkbox"/> selects and uses the appropriate resources <input type="checkbox"/> develops a service schedule: <ul style="list-style-type: none"> - includes make, model and year of vehicle - includes vehicle factors such as distance, time and operating conditions - lists checks pertaining to fluids, filters, tires, battery, belts/chains, lights and body | 1 | |
| Part 3 | <p>Inspections</p> <input type="checkbox"/> inspects, adjusts or replaces items as specified on the service schedule | 1 | |
| Part 4 | <p>Exterior/Interior Surfaces</p> <input type="checkbox"/> selects and uses products to enhance exterior surfaces <input type="checkbox"/> selects and uses products to enhance interior surfaces <input type="checkbox"/> selects and uses recommended equipment | 1 | |

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TASK ASSESSMENT CHECKLIST: Engine Fundamentals

MEC1040-1

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| STANDARD: | Students working at STANDARD must demonstrate a performance rating of 2 for safety and 1 for the remainder of the criteria. |
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| TASK PERFORMANCE CRITERIA | | Standard | Observed Rating |
|----------------------------------|--|-----------------|------------------------|
| Part 1 | <p><i>The student:</i></p> <p>Safety</p> <input type="checkbox"/> follows established shop/lab procedures <input type="checkbox"/> selects and uses the appropriate tools and equipment <input type="checkbox"/> understands the hazards associated with the use and storage of gasoline <input type="checkbox"/> handles gasoline in proper manner | 2 | _____ |
| Part 2 | <p>Engine Operating Principles</p> <input type="checkbox"/> selects and uses resources effectively <input type="checkbox"/> explains the operating principles of a two-stroke cycle <input type="checkbox"/> explains how a four-stroke cycle engine operates | 1 | _____ |
| Part 3 | <p>Engine Condition</p> <input type="checkbox"/> given an engine, determines the mechanical condition including compression pressures <input type="checkbox"/> determines spark voltages and timing settings <input type="checkbox"/> determines type of fuel supply to the cylinder <input type="checkbox"/> measures engine bore and stroke <input type="checkbox"/> determines the engine displacement | 1 | _____ |
| Part 4 | <p>Combustion By-products</p> <input type="checkbox"/> lists combustion by-products; e.g.: – carbon dioxide – carbon monoxide – oxides of nitrogen – particulates <input type="checkbox"/> states the impact on the environment | 1 | _____ |

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TASK ASSESSMENT CHECKLIST: Electrical Fundamentals

MEC1090-1

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| STANDARD: | Students working at STANDARD must demonstrate a performance rating of 2 for safety and 1 for the remainder of the criteria. |
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| TASK PERFORMANCE CRITERIA | | Standard | Observed Rating |
|----------------------------------|--|-----------------|------------------------|
| Part 1 | <p><i>The student:</i></p> <p>Safety</p> <ul style="list-style-type: none"> <input type="checkbox"/> follows established shop/lab procedures <input type="checkbox"/> uses personal protective equipment as required <input type="checkbox"/> selects and uses electrical meters correctly <input type="checkbox"/> observes recommended procedures when handling/servicing batteries | 2 | _____ |
| Part 2 | <p>Electrical Principles</p> <ul style="list-style-type: none"> <input type="checkbox"/> recognizes series and parallel circuits on vehicles <input type="checkbox"/> recognizes open, closed, shorted and grounded condition <input type="checkbox"/> selects and uses voltmeter correctly <input type="checkbox"/> selects and uses ammeter correctly <input type="checkbox"/> selects and uses ohmmeter correctly <input type="checkbox"/> uses meters to check lighting, charging and starting system <input type="checkbox"/> tests battery state of charge and condition | 1 | _____ |

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TASK ASSESSMENT CHECKLIST: Pneumatic & Hydraulic Systems

MEC1110-1

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| STANDARD: | Students working at STANDARD must demonstrate a performance rating of 2 for safety and 1 for the remainder of the criteria. |
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| TASK PERFORMANCE CRITERIA | | Standard | Observed Rating |
|---------------------------|--|----------|-----------------|
| Part 1 | <p><i>The student:</i></p> <p>Safety</p> <ul style="list-style-type: none"> <input type="checkbox"/> follows established shop/lab procedures <input type="checkbox"/> lists dangers involved with high pressure liquids and gases <input type="checkbox"/> understands and follows safe practices when working with pressurized pneumatic and hydraulic systems. <input type="checkbox"/> understands and follows established clean-up procedures | 2 | _____ |
| Part 2 | <p>Operating Principles</p> <ul style="list-style-type: none"> <input type="checkbox"/> states operating principles for pneumatics <input type="checkbox"/> states operating principles for hydraulics <input type="checkbox"/> lists components involved in pneumatic and hydraulic systems <input type="checkbox"/> states where systems are used on vehicles | 1 | _____ |
| Part 3 | <p>Operating Systems</p> <ul style="list-style-type: none"> <input type="checkbox"/> recognizes, operates and tests pneumatic system <input type="checkbox"/> recognizes, operates and tests hydraulic system | 1 | _____ |

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TASK ASSESSMENT CHECKLIST: Mechanical Systems

MEC1130-1

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| STANDARD: | Students working at STANDARD must demonstrate a performance rating of 2 for safety and 1 for the remainder of the criteria. |
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| TASK PERFORMANCE CRITERIA | | Standard | Observed Rating |
|---------------------------|---|----------|-----------------|
| Part 1 | <i>The student:</i> Safety <input type="checkbox"/> follows established shop/lab routines <input type="checkbox"/> selects and uses tools and equipment safely <input type="checkbox"/> uses guards and shields as instructed | 2 | _____ |
| Part 2 | Mechanical Principles <input type="checkbox"/> describes simple machines and their purpose <input type="checkbox"/> lists types of mechanical motion <input type="checkbox"/> states how mechanical energy is converted into other energy forms <input type="checkbox"/> provides examples of mechanical devices on vehicles | 1 | _____ |
| Part 3 | Mechanical Systems <input type="checkbox"/> given a mechanical system, determines: <ul style="list-style-type: none"> - torque and gear ratio - mechanical advantage from input to output - coefficient of friction | 1 | _____ |

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TASK ASSESSMENT CHECKLIST: Ride & Control Systems

MEC1150-1

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| STANDARD: | Students working at STANDARD must demonstrate a performance rating of 2 for safety and 1 for the remainder of the criteria. |
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| TASK PERFORMANCE CRITERIA | | Standard | Observed Rating |
|---------------------------|---|----------|-----------------|
| Part 1 | <i>The student:</i> Safety <input type="checkbox"/> follows established shop/lab routines <input type="checkbox"/> selects and uses floor jacks and safety stands | 2 | _____ |
| Part 2 | Ride and Control Principles <input type="checkbox"/> reports on operation and purpose of suspension, steering and braking systems as applied to land vehicle and aircraft <input type="checkbox"/> reports on how hydraulics, pneumatics, electrical are applied to ride and control systems | 1 | _____ |
| Part 3 | Inspection and Service <input type="checkbox"/> identifies suspension, steering and brake system components <input type="checkbox"/> locates points of service/wear on ride and control system <input type="checkbox"/> lubricates components where possible <input type="checkbox"/> inspects and repacks wheel bearing <input type="checkbox"/> identifies tire wear patterns | 1 | _____ |

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TASK ASSESSMENT CHECKLIST: Vehicle Structures & Materials

MEC1160-1

| | |
|------------------|---|
| STANDARD: | Students working at STANDARD must demonstrate a performance rating of 2 for safety and 1 for the remainder of the criteria. |
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| TASK PERFORMANCE CRITERIA | | Standard | Observed Rating |
|----------------------------------|--|-----------------|------------------------|
| Part 1 | <p><i>The student:</i></p> <p>Safety</p> <ul style="list-style-type: none"> <input type="checkbox"/> follows established shop/lab routines <input type="checkbox"/> recognizes health hazards associated with coated surfaces <input type="checkbox"/> demonstrates safe handling and disposal of hazardous materials | 2 | _____ |
| Part 2 | <p>Vehicle Structures</p> <ul style="list-style-type: none"> <input type="checkbox"/> reports how the function of a vehicle dictates the materials used in construction for interior and exterior surfaces <input type="checkbox"/> lists materials used in vehicle construction <input type="checkbox"/> lists types of fasteners <input type="checkbox"/> lists types of structural coatings utilized | 1 | _____ |
| Part 3 | <p>Identification</p> <ul style="list-style-type: none"> <input type="checkbox"/> identifies structural parts on a vehicle <input type="checkbox"/> identifies materials used to manufacture parts <input type="checkbox"/> identifies fasteners and coatings | 1 | _____ |

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TASK ASSESSMENT CHECKLIST: Metal Forming & Finishing

MEC1170-1

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| STANDARD: | Students working at STANDARD must demonstrate a performance rating of 2 for safety and 1 for the remainder of the criteria. |
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| TASK PERFORMANCE CRITERIA | | Standard | Observed Rating |
|---------------------------|--|----------|-----------------|
| Part 1 | <p><i>The student:</i></p> <p>Safety</p> <input type="checkbox"/> follows established shop/lab routines <input type="checkbox"/> uses personal protection equipment as instructed <input type="checkbox"/> selects and uses appropriate tools and equipment associated with metal forming and finishing | 2 | _____ |
| Part 2 | <p>Distortion and Corrosion</p> <input type="checkbox"/> states effects of distortion and corrosion on ferrous sheet metal <input type="checkbox"/> states characteristics of sheet metal that has been damaged | 1 | _____ |
| Part 3 | <p>Repair</p> <input type="checkbox"/> repairs a minor dent in a panel <input type="checkbox"/> repairs a rust out in a panel | 1 | _____ |

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| Module Learner Expectation: | <p><i>The student will:</i></p> <ul style="list-style-type: none"> • apply metal forming and finishing skills to repair minor panel damage. |
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| <u>Assessment Components</u> | <u>Details</u> | <u>Indicators</u> |
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| Tool Use | <p><i>The student:</i></p> <ul style="list-style-type: none"> • selects and uses proper hammers, dollies to create the desired shape | <ul style="list-style-type: none"> • physically returned to original shape (± 4 mm) |
| Plastic Filler | <ul style="list-style-type: none"> • mixes, applies and levels filler • correctly edges filler • selects and uses correct file and sand paper to create proper contour | <ul style="list-style-type: none"> • sight and feel test indicates correct contour and surface appearance |
| Use of Oxyacetylene and/or GMAW welder | <ul style="list-style-type: none"> • removes rust out portion of panel • tacks weld patch in place • seams weld patch | <ul style="list-style-type: none"> • all rust removed and surface patched and refinished to original condition |
| Picking and Filing | <ul style="list-style-type: none"> • levels panel by picking and filing to required contour | <ul style="list-style-type: none"> • pick and file to within ± 4 mm |

TASK ASSESSMENT CHECKLIST: Surface Preparation

MEC1190-1

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| STANDARD: | Students working at STANDARD must demonstrate a performance rating of 2 for safety and 1 for the remainder of the criteria. |
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| TASK PERFORMANCE CRITERIA | | Standard | Observed Rating |
|----------------------------------|--|-----------------|------------------------|
| Part 1 | <p><i>The student:</i></p> <p>Safety</p> <ul style="list-style-type: none"> <input type="checkbox"/> follows established shop/lab procedures related to control abrasive dust and chemical fumes <input type="checkbox"/> selects and uses tools and equipment associated with surface preparation <input type="checkbox"/> uses WHMIS Material Safety Data Sheets (MSDS) as required | 2 | _____ |
| Part 2 | <p>Products, Equipment and Procedures</p> <ul style="list-style-type: none"> <input type="checkbox"/> lists surface conditions <input type="checkbox"/> describes repair procedures for each condition <input type="checkbox"/> lists abrasives and alternatives for surface preparation <input type="checkbox"/> uses appropriate abrasives and other surface preparation materials <input type="checkbox"/> lists and describes tools and equipment required | 1 | _____ |
| Part 3 | <p>Surface Preparations on a Given Surface</p> <ul style="list-style-type: none"> <input type="checkbox"/> analyzes and describes surface preparation process <input type="checkbox"/> performs surface preparation | 1 | _____ |

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|--|-------------------------------------|