

MODULE MEC1020: VEHICLE SERVICE & CARE**Level:** Introductory**Theme:** Vehicle Design and Ownership**Prerequisite:** None**Module Description:** Students develop knowledge, skills and attitudes to care for and service a motor vehicle.**Module Parameters:** Access to commercially available products and related resources.**Note:** Customer work must be checked by qualified technician.**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 use of tools, and follow established lab procedures 	<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 established shop lab procedures proper handling of vehicle fluids safe handling of vehicle cosmetic/cleaning products maintaining a safe/tidy workplace. <p><i>Assessment Tool</i> <i>Task Assessment Checklist: Vehicle Service and Care, Part 1, MEC1020-1</i></p> <p><i>Standard</i> <i>Performance rating of 3 on each criteria</i></p>	10
<ul style="list-style-type: none"> develop a preventive maintenance service schedule for a vehicle 	<ul style="list-style-type: none"> developed service schedule for a given vehicle considering the following: <ul style="list-style-type: none"> items to be checked, serviced or routinely replaced items to be included are fluids, filters, tires, belts/chains, battery and lights distance/time intervals and operating conditions. <p><i>Assessment Tool</i> <i>Task Assessment Checklist: Vehicle Service and Care, Part 2, MEC1020-1</i></p> <p><i>Standard</i> <i>Performance rating of 1 or more on each criteria</i></p>	15

MODULE MEC1020: VEHICLE SERVICE & CARE (continued)

Module Learner Expectations	Assessment Criteria and Conditions	Suggested Emphasis
<p><i>The student will:</i></p> <ul style="list-style-type: none"> • inspect and service a vehicle according to the vehicle service schedule • clean and apply a protective coating to the exterior and interior surfaces of a vehicle for use or storage • demonstrate basic competencies. 	<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"> – completion of service schedule – selection and use of resources – time on task – quality of service. <p><i>Assessment Tool</i> <i>Task Assessment Checklist: Vehicle Service and Care, Part 3, MEC1020-1</i></p> <p><i>Standard</i> <i>Performance rating of 1 or more on each criteria</i></p> <ul style="list-style-type: none"> • observed performance in cleaning and applying protective coatings to a given vehicle, observing the following: <ul style="list-style-type: none"> – proper selection and use of equipment/materials – quality of completed task – ability to problem solve – time on task. <p><i>Assessment Tools</i> <i>Task Assessment Checklist: Vehicle Service and Care, Part 4, MEC1020-1</i></p> <p><i>Standard</i> <i>Performance rating of 1 or more on each criteria</i></p> <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 assessment tools noted above</i></p>	<p>50</p> <p>25</p> <p>Integrated throughout</p>

MODULE MEC1020: VEHICLE SERVICE & CARE (continued)

Concept	Specific Learner Expectations	Notes
Health/Safety Hazards	<p><i>The student should:</i></p> <ul style="list-style-type: none"> • demonstrate knowledge of and follow practices that promote safety and protect the environment. 	
Consumer Awareness	<ul style="list-style-type: none"> • explain why preventive maintenance can: <ul style="list-style-type: none"> – avoid expensive repairs – improve reliability and safety – improve efficiency – extend the life of the vehicle • identify and locate a vehicle’s major mechanical and structural components that need regular service and care • identify and safely use common hand tools and equipment • identify from the owner’s manual the recommended: <ul style="list-style-type: none"> – type and grade of motor oil – type of engine coolant – brake fluid – power steering fluid – transmission fluid – type of filters • identify potential trouble signs such as: <ul style="list-style-type: none"> – warning lights or gauges – unusual odours or noises – burning oil – leaks – other • describe what steps should be taken when a vehicle is stored for a period of time • explain why it is necessary to shelter or protect a vehicle from: <ul style="list-style-type: none"> – the sun’s radiation – salt – heat and cold – other • identify the components of a work order. 	

MODULE MEC1020: VEHICLE SERVICE & CARE (continued)

Concept	Specific Learner Expectations	Notes
Inspect/Service	<p><i>The student should:</i></p> <ul style="list-style-type: none"> • prepare a repair order • demonstrate a visual inspection of: <ul style="list-style-type: none"> – fluid levels – hose and belt condition – tire pressure and condition – lights and accessories – battery condition – other • prepare a service schedule using the owner’s manual or a shop manual to determine when to: <ul style="list-style-type: none"> – change lubrication fluids – replace filters – drain and replace coolants – lubricate body components – inspect and lubricate suspension and steering joints – inspect brake linings – repack wheel bearings – rotate tires – other • demonstrate the procedure used to: <ul style="list-style-type: none"> – replace engine motor oil, coolant and filters – lubricate chassis and body parts – clean and check the battery condition – rotate tires – check tire pressure – dispose of used fluids and parts – other • identify and demonstrate the use of products that can be safely used to: <ul style="list-style-type: none"> – clean a painted surface – degrease components – wax and polish a surface – other; e.g., chip protection 	<p>Emphasize legal aspects of writing up and signing a work order.</p> <p>Relate to routine battery service.</p> <p>Should be developed to meet local conditions.</p> <p>For example, head lamp covers, nose guards, mud flaps, side protection moldings.</p>

MODULE MEC1020: VEHICLE SERVICE & CARE (continued)

Concept	Specific Learner Expectations	Notes
Inspect/Service (continued)	<p><i>The student should:</i></p> <ul style="list-style-type: none"> • list items to be taken on trips (winter, summer) • remove and replace tire and rim from a vehicle • boost (jump-start) a vehicle • demonstrate basic troubleshooting on a stalled vehicle. 	<p>Emergency kit.</p> <p>Practise using vehicle jack and wheel nut wrench.</p> <p>Follow recommended procedure to avoid damage to vehicle or battery explosion.</p>
Careers	<ul style="list-style-type: none"> • list personal characteristics of a service centre technician • describe further education, working conditions and career opportunities. 	