

MODULE MEC2100: POWER ASSIST ACCESSORIES**Level:** Intermediate**Theme:** Guidance and Control Systems**Prerequisite:** MEC1110 Pneumatics & Hydraulics**Module Description:** Students identify and explain the function of components and parts of power assist accessories.**Module Parameters:** Multimeter, power accessories and related resources.**Note:** Customer work must be checked by certified technician.**Supporting Module:** MEC1090 Electrical Fundamentals**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 work practices when working on power accessories 	<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"> personal safety and vehicle care when working with power accessories maintenance of a clean and organized workplace safe and efficient use of tools and equipment. <p><i>Assessment Tool</i> <i>Task Assessment Checklist: Power Assist Accessories, Part 1, MEC2100-1</i></p> <p><i>Standard</i> <i>Performance rating of 2 on each criteria</i></p>	15
<ul style="list-style-type: none"> list components and state functions of power assist accessories 	<ul style="list-style-type: none"> observed performance related to: <ul style="list-style-type: none"> preparation of a comprehensive list of available power assist accessories identification of components in power assist systems demonstration of power accessories that can be used to assist mechanical systems. <p><i>Assessment Tool</i> <i>Task Assessment Checklist: Power Assist Accessories, Part 2, MEC2100-1</i></p> <p><i>Standard</i> <i>Performance rating of 2 on each criteria</i></p>	20

MODULE MEC2100: POWER ASSIST ACCESSORIES (continued)

Module Learner Expectations	Assessment Criteria and Conditions	Suggested Emphasis
<p><i>The student will:</i></p> <ul style="list-style-type: none"> • describe and check major components of power accessories • service and repair power accessories • demonstrate basic competencies. 	<p><i>Assessment of student achievement should be based on:</i></p> <ul style="list-style-type: none"> • description and assessment of major components including mechanical and electrical devices. <p><i>Assessment Tool</i> <i>Task Assessment Checklist: Power Assist Accessories, Part 3, MEC2100-1</i></p> <p><i>Standard</i> <i>Performance rating of 2 on each criteria</i></p> <ul style="list-style-type: none"> • observed performance related to: <ul style="list-style-type: none"> – following procedures to isolate and identify faulty components/system – servicing and repairing faulty power assist accessories – test to establish that the fault has been remedied – analysis of possible factors that caused the failure in the component. <p><i>Assessment Tool</i> <i>Task Assessment Checklist: Power Assist Accessories, Part 4, MEC2100-1</i></p> <p><i>Standard</i> <i>Performance rating of 2 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 any assessment tools noted above</i></p>	<p>25</p> <p>40</p> <p>Integrated throughout</p>

MODULE MEC2100: POWER ASSIST ACCESSORIES (continued)

Concept	Specific Learner Expectations	Notes
Health/Safety Hazards	<p><i>The student should:</i></p> <ul style="list-style-type: none"> • demonstrate established lab safety procedure • demonstrate practices that prevent damage to components. 	
Identification/Function	<ul style="list-style-type: none"> • describe the types and basic functions of power accessories found on vehicles • compare power accessories to the mechanical system they have replaced • evaluate current power accessories as a means of forecasting types of power accessories that may be used in future vehicles. 	Describe steering, brakes, suspension, windows, door locks, antennae applications.
System/Component Function	<ul style="list-style-type: none"> • list the parts of selected power accessories • describe the function of the major parts of selected power accessories • trace the power path of selected power accessories. 	
Inspect/Repair	<ul style="list-style-type: none"> • demonstrate how to use shop manuals to diagnose power accessory faults specific to power accessories • identify problems and faults in power accessories systems. 	All services, diagnoses, repairs and replacements of parts must be checked by a licenced technician.