



Automotive Technologies 1 (AUT100) Semester 2 Final Assessment Blueprint

Year Created: 2024-2025

Subject: Career & Technical Education

Method of Delivery: Online

Administration Window: May Common Finals

Item Types Included

Type	Number of Items	Description
MC	50	Multiple Choice - Select one answer

Resources

[Automotive Technologies Course Sequence](#)

Standards At-A Glance

Standard	Number of Items	Standard Description
CTE [2019].MANU.9-12.AT.4.32	1	Dismount, inspect, and remount tire on wheel equipped with tire pressure monitoring system sensor
CTE [2022].MANU.9-12.AT.3.1	1	Rotate tires according to manufacturer's recommendation including vehicles equipped with tire pressure monitoring systems (TPMS)
CTE [2022].MANU.9-12.AT.3.5	1	Check fluid condition; check for leaks
CTE [2022].MANU.9-12.AT.4.30	5	Inspect tire condition/age; identify tire wear patterns; check for correct tire size, application (service-class, load and speed ratings), and air pressure as listed on the tire information placard/label
CTE [2022].MANU.9-12.AT.4.31	2	Rotate tires according to manufacturer's recommendation including vehicles equipped with tire pressure monitoring systems (TPMS)
CTE [2022].MANU.9-12.AT.4.32	1	Dismount, inspect, and remount tire on wheel (with/without TPMS); balance wheel and tire assembly
CTE [2022].MANU.9-12.AT.4.35	1	Describe indirect and direct tire pressure monitoring systems (TPMS); calibrate/relearn system; verify operation of instrument panel lamps
CTE [2022].MANU.9-12.AT.5.10	2	Inspect brake lines, flexible hoses, and fittings for leaks, dents, kinks, rust, cracks, bulging, wear, and loose fittings/supports
CTE [2022].MANU.9-12.AT.5.3	13	Identify brake system components and configuration
CTE [2022].MANU.9-12.AT.6.10	2	Inspect and test fusible links, circuit breakers, and fuses; determine necessary action
CTE [2022].MANU.9-12.AT.6.11	7	Repair and/or replace connectors, terminal ends, and wiring of electrical/electronic systems
CTE [2022].MANU.9-12.AT.6.12	1	Perform battery state-of-charge test; determine necessary action
CTE [2022].MANU.9-12.AT.6.13	1	Confirm proper battery capacity, size, type, and application for vehicle; perform battery capacity and load test
CTE [2022].MANU.9-12.AT.6.15	1	Inspect and clean battery; fill battery cells (if applicable); check battery cables, connectors, clamps, and hold-downs
CTE [2022].MANU.9-12.AT.6.4	2	Describe electrical/electronic series, parallel, and series-parallel circuits using principles of electricity (Ohm's Law)
CTE [2022].MANU.9-12.AT.6.5	5	Demonstrate proper use of a digital multimeter (DMM) when measuring source voltage, voltage drop (including grounds), current flow, and resistance
CTE [2022].MANU.9-12.AT.6.6	2	Demonstrate knowledge of the causes and effects from shorts, grounds, opens, and resistance problems in electrical/electronic circuits
CTE [2022].MANU.9-12.AT.6.8	2	Use wiring diagrams to trace electrical/electronic circuits

*Some items may be tagged to more than one standard.