
HVAC Excellence Study Guide) for Electric Test Questions and Answers 2025

Law of electric states that: - CORRECT ANSWERS -

Like charges repel, and opposites attract.

When testing a supply voltage a maximum variation allowed is typically: -

CORRECT ANSWERS -plus or minus five percent

A Voltage Tester reads zero when there is: - CORRECT ANSWERS -
no potential difference

An Ammeter - CORRECT ANSWERS -

Is used to measure the quantity and intensity of electrons flowing inside a wire, or through a load

When will an ammeter have an indication/reading of zero. - CORRECT ANSWERS -

When it is clamped around two wires feeding a load device, the magnetic fields will cancel each other out.

Resistance: - CORRECT ANSWERS -

refers to anything that offers opposition to the flow of electrons.

A circuit without resistance to control the electron flow is considered: -

CORRECT ANSWERS -shorted

Reading a VOM (Volt-ohm-meter) the difference occurs across -

CORRECT ANSWERS -the switch

Increased resistance _____ amperage , and lower resistance _____ amperage.

(OHM's Law) - CORRECT ANSWERS -decreases, increases

With a fixed resistance, higher voltage _____ amperage and lower voltage _____ amperage.

(OHM's Law) - CORRECT ANSWERS -increases, decreases

Symbol for Impedance - CORRECT ANSWERS -"Z"

Ohmmeters - CORRECT ANSWERS -

Measure electron movement calibrated to a voltage supplied by the meters battery, to check for its resistance

Continuity - CORRECT ANSWERS -A complete path for electron flow

Open Circuit can have an: - CORRECT ANSWERS -

Open Switch, Blown Fuse, Broken Wire

Short Circuit - CORRECT ANSWERS -Is a complete circuit where none should exist

The ohmmeter detects a short circuit by: - CORRECT ANSWERS -

indicating zero resistance

A Watt-meter is normally located at the: - CORRECT ANSWERS -

power entry to a building

A Thermostat is a: - CORRECT ANSWERS -temperature sensitive switch

A Residential Air conditioning system thermostat controls three major components: -

CORRECT ANSWERS -Compressor, Condenser Fan, Evaporator fan motor or blower

Hvac Excellence Study Guide

Joacim Rocklöv



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