
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 Electrical

David Kirk



Hvac Excellence Study Guide Electrical:

Pal's HVAC Technician Certification Exam Guide Norm Christopherson, 2004-12 The most complete and comprehensive HVAC Technician Certification Guide available Pal's HVAC Exam Certification Guide will help you pass the NATE ICE RSES Certification HVAC Excellence and HVAC Technician Licensing Exams It is also very useful in preparing for the state limited energy license and HVAC contractor licenses

How to Troubleshoot Chiller Problems Step by Step Charles Nehme, 2025-11-08 The modern environment whether industrial commercial or residential relies fundamentally on consistent and efficient climate control At the heart of most large scale cooling systems lies the chiller a complex piece of machinery that is vital to operational continuity and comfort When a chiller fails the consequences range from spoiled product and lost revenue to compromised data centers and severe discomfort For far too long troubleshooting chiller problems has been treated as a specialized often intimidating art accessible only to a few seasoned veterans This book changes that How to Troubleshoot Chiller Problems Step by Step is designed to demystify the diagnostic process It provides a logical repeatable methodology that moves from safe foundational checks to complex system analysis We break down the faults into manageable categories fluid dynamics refrigeration cycle integrity and electrical controls allowing you to approach any alarm code or performance issue with confidence and clarity My decades spent in the global HVAC and MEP consulting field have repeatedly shown me that the most effective technicians are those who follow a systematic approach rely on sound principles and prioritize safety above all else This guide encapsulates that accumulated wisdom offering you a direct pathway to minimizing downtime reducing costly errors and mastering the essential skill of chiller repair and maintenance

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Resources in Education, 1997

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Builder & Contractor, 1989

ACEC Directory American Consulting Engineers Council, 1990

Scientific and Technical Aerospace Reports, 1994

Lighting Dimensions, 1998-07

Search, 1993

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