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# Journeyman Electrician practice test 1

## Questions and Answers 100% Correct

when an electrical circuit tested with ohm meter, a short circuit is indicated by a reading of... - Answer  0

If the panel board rating is 100 amperes, what shall be the overcurrent device rating located in panelboard? - Answer  NEC 408.36  
the overcurrent device rating must not be greater than panel board rating in which is located

for stationary small motors rated less than..., the branch circuit overcurrent device may serve as a controller. - Answer  1/8 horsepower

what is the resistance of 80 watt light bulb rated at 120 volts? - Answer  180 ohms

what is the NEC article for Clearance on a service entry - Answer  230.24

voltage drop formula - Single phase - Answer   $2 * K\text{-factor} * \text{Amp} * \text{Length} / \text{Circular mils or KCmils of the conductor used}$

voltage drop formula - 3-phase - Answer   $1.732 * K\text{-factor} * \text{Amp} * \text{Length} / \text{Circular mils or KCmils of the conductor used}$

What is the K-factor for copper and aluminum? - Answer  Copper: 12.9  
Aluminum : 21.2

How to find the K-factor - Answer  Chapter 9,table 8  
Multiply resistance of conductor per foot by the Circular mils size of the conductor

Where do I find conductor properties - Answer  Chapter 9, table 8

Where do I find the Full load current for 3 phase, alternating current motor - Answer  430. 250

# Journeyman Electrician Practice Test

**Annelies Wilder-Smith**

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the author's name.

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