Written Assessment:

Administration Time: 3 hours
Number of Questions: 160

Areas Covered:

- Basic Electrical: 10%
- D.C. Circuits/Calculations: 6%
- A.C. Circuits/Calculations: 6%
- D.C. Machines: 6%
- A.C. Machines/Polyphase Circuits: 6%
- National Electrical Code: 6%
- Motor Control/Symbol: 14%
- Digital: 6%
- Microprocessors/Systems: 6%
- Electronic Components: 6%
- Instruments: 6%
- Analysis: 6%
- Troubleshooting: 6%
- Transformers and Lighting: 4%
- Programmable Controller: 6%
Sample Questions:

A Rheostat, a type of variable resistor, is normally used to control electrical
A. pressure
B. power
C. current
D. frequency

When working with capacitors, the first thing to do to them is to see that they are
A. wiped clean
B. discharged
C. disconnected
D. charged

The speed of a wound-rotor motor may be increased by
A. reducing the resistance in the secondary circuit
B. reducing the resistance in the primary circuit
C. inserting resistance in the primary circuit
D. inserting resistance in the secondary circuit

Ambient temperature is the
A. air temperature where a piece of equipment is located
B. temperature of the windings in the motor
C. temperature of the air inside the controller
D. temperature of the wires feeding the motor

The number of bits necessary to represent the binary equivalent of the decimal number 62 is
A. 2
B. 6
C. 7
D. 8