



**B . E . S . T .**  
**B O M A E N G I N E E R**  
**S K I L L S T R A I N I N G S E R I E S**

DEVELOPED BY THE **B O M A**  
**E N G I N E E R S K I L L S T R A I N I N G T E A M**

**Electrical (4 classes)**

Each part in the BEST Series is “stand-alone”!

**Tuesdays, Oct. 5, 19, Nov. 2, & 16, 2010**

Time: 8:00 am—10:00 am

Location: 901 Fifth Avenue Conference Room

**Instructor: Travis Smith**  
**Chief Engineer, Wright Runstad**

**Electrical Fundamentals**

Matter and Energy  
 Magnetism  
 Electron Behavior  
 Conductors  
 Conductivity and Resistance  
 Alternating Current Properties  
 Direct Current Sources / Properties  
 Voltage  
 Current  
 Resistance, Reactance  
 Circuits—Parallel and Series  
 Kirchoff’s Law  
 Capacitance  
 Transformers

**Ohm’s Law**

Ohm’s Law and calculations  
 Resistor calculations  
 Wattage  
 Watt’s Power calculations  
 Voltage Drop  
 Practical Examples of Ohm’s Law  
 Inductance, Capacitance, Impedance

**Electrical Wiring Theory**

Power Generation  
 Power Distribution High Voltage  
 Power Distribution Facilities  
 Alternating Current / Direct Current  
 Transformers  
 Conductors  
 Circuit Protection  
 Motors

**Practical Wiring**

Electrical Maintenance  
 Safety Items  
 The NEC  
 Meters  
 Logical Troubleshooting  
 Lights and plug circuits  
 Motor circuits and troubleshooting  
 Variable Frequency Drives

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Opportunity for engineers in commercial building operations & maintenance to network and learn important/basic information about Electricity.