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## IBT ELECTRICAL 101 ACADEMY

IBT's popular two-and-a-half day training school that covers electricity and electrical devices in industry will be offered Tuesday, April 10 through Thursday, April 12, 2012 in Springfield, MO.

Led by IBT's Electrical Group Product Specialists, the course is designed to increase the knowledge base and comfort level of facility maintenance technicians, purchasing personnel and machine operators responsible for electrical equipment maintenance.

For the course, instructors will draw upon a background that averages more than twenty years of specialization in the application and distribution of electrical equipment and supplies to industry. Class content will supply the basic building blocks of information that everyone who works with electricity should know.

Tuition for the Electrical Training class is \$ 595 per student. All training materials and lunches are included. Each attendee will receive a free Amprobe ACD-16 TRMS Pro 1000A Datalogging Clamp-on Multimeter. The Amprobe meter has a retail value of \$ 175.

Classes will run from 8:30 a.m. until 4:30 p.m. on the first two days and from 8:30 a.m. until 12:00 p.m. on the third day. Classwork will include lecture/discussion, wiring labs and knowledge review tests.

IBT can arrange for reasonably priced overnight accommodations for students in the area.

The curriculum is scheduled as follows:

### **DAY 1**

Basic Electricity  
AC/DC  
Voltage/Hertz  
Transformers/Power Supplies  
Basic Symbols  
Basic Control Devices & Logic  
Circuit Breakers/Fuses  
Contactors/Relays  
IEC vs. NEMA  
Overload-Starters  
Push Buttons  
Line Diagram  
2 Wire Wiring Exercise  
3 Wire Wiring Exercise  
Sensors/Limit Switches  
Using a Meter for Safety & Troubleshooting

### **DAY 2**

Motor Basics  
Single Phase/Three Phase  
Wire Lab Motor Wiring Open Drip/TEFC/  
Explosion Proof  
Soft Start Basics  
What You Really Should Know  
Variable Frequency Drive (VFD) Basics  
When Should a VFD Be Used  
Good/Bad Applications for Soft Starts & VFDS  
Basic Set Up  
Basic Trouble Shooting

### **DAY 3**

Surge Suppression  
NEC Code Update  
Safety: Lockout & Tag Out



**This class qualifies for 2.0 CEU credits. To get more information or to pre-register, contact IBT Training: [ibttraining@ibtinc.com](mailto:ibttraining@ibtinc.com) or 913-428-2817**