

## **IBT ADVANCED ELECTRICAL 102 ACADEMY**

IBT's popular Electrical 101 Academy now has a companion session, the Advanced Electrical 102 Academy. This two-and-a-half day training program will be offered April 17-19, 2012 in Amarillo, Texas.

Recommended for field and factory maintenance technicians and those involved with specifying, purchasing, operating or troubleshooting motor and drive systems, Electrical 102 examines motors from front to back and drives inside and out. It also covers related safety devices, like light curtains and lasers.

Attendees will build their knowledge through feature lectures, hands-on laboratories and knowledge reviews. Advanced Electrical 102 training results in increased confidence, effectiveness and capability. Electrical 101 Academy is not required, but attendees should be familiar with the principles of electrical equipment.

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.

Tuition for Advanced Electrical 102 training is \$ 795 per student. Early registration is recommended.

Classes will run from 8:30 a.m. until 4:30 p.m. on days 1 and 2 and from 8:30 a.m. until 12:00 p.m. on day 3. All training materials and lunches are included. IBT can arrange for reasonably priced overnight accommodations for students in the area. The training qualifies for 2.0 CEU credits.

The curriculum is scheduled as follows:

### **DAY 1: Motors**

Torque & Horsepower  
Enclosures  
Frame Size & Designations  
Application & Selection of Motors  
Troubleshooting: My Motor is Not Running  
Brakes & Clutches  
- How They Work  
- Application & Selection  
- Troubleshooting  
Gearboxes  
- Application & Selection  
- Troubleshooting  
Mechanical Speed Control & Tensioning

### **DAY 2: Drives**

Micro vs. Industrial Drives  
Torque Profiles – CT, VT  
Control Modes – V/Hz, OLV, CLV  
Programming  
Drive Accessories  
Communications  
Drive Start Up Procedures  
Troubleshooting

### **DAY 3: Light Curtains & Safety**

How They Work  
Changing Standards  
Applying  
Options in Specifying

