

## 1-Day Live Online Electrical Troubleshooting

### LIVE ONLINE SEMINAR

Courses Available  
Throughout the Year

COST: \$625.00  
 INCLUDES:  
 Class Manual  
 Certificate of Completion



1. **Basics of Electricity**  
 Current  
 Voltage  
 Resistance
2. **Reading Schematics & Symbols**
3. **Physics and Math of Electricity**  
 Ohms Law ( $E=IR$ )  
 Kirchhoff's Laws  
 Power Equation ( $P=EI$ )  
 Law of Conservation of Energy
4. **Batteries**
5. **Generators**  
 Alternator  
 Generator (DC/DC)
6. **Transformers**  
 Coils and Coil Packs  
 Troubleshooting
7. **Conductors and Insulators**  
 Wire Gauge  
 AWG vs Metric
8. **Overcurrent Protection**  
 Fuses  
 Fusible Links  
 Circuit Breakers
9. **NEMA Electrical Symbols**
10. **Electrical Control Diagrams**  
 Schematic vs Ladder Logic
11. **Electrical Components**
12. **NEMA vs. IEC Electrical Symbols**
13. **Motors**  
 Motor Starters  
 Manual and Reversing
14. **Wire sizing**  
 Ampacity and Voltage Drop
15. **Parallel vs Series Circuits**
16. **Multi-meters**  
 Analog and Digital  
 Ratings

### REGISTRATION FORM

PLEASE USE A SEPARATE FORM FOR EACH COURSE# \_\_\_\_\_

COURSE LOCATION: \_\_\_\_\_ COURSE DATES: \_\_\_\_\_

PERSON TO CONTACT IF THERE IS A CHANGE IN SCHEDULE: \_\_\_\_\_

STUDENTS: \_\_\_\_\_

COMPANY: \_\_\_\_\_ PHONE: \_\_\_\_\_ EXT: \_\_\_\_\_

ADDRESS: \_\_\_\_\_ EMAIL: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

☐ CHECK IS ENCLOSED ( \_\_\_\_\_ ) STUDENT(s) @ \$625 PER PERSON \$ \_\_\_\_\_

☐ USE OUR PURCHASE ORDER NO. \_\_\_\_\_

☐ VISA ☐ M/C ☐ AE # \_\_\_\_\_ EXP: \_\_\_\_\_ CVV: \_\_\_\_\_

ENROLLMENT ARRANGEMENTS SHOULD BE RECEIVED A MINIMUM OF SEVEN DAYS PRIOR TO THE SEMINAR DATE

For more information or to register contact us: 800-704-1066 or email [info@nfpitraining.com](mailto:info@nfpitraining.com)