

Troubleshooting Electrical Circuits "Hands-On"

3-DAY SEMINAR

This course is designed for anyone requiring an understanding of electricity, and needing to advance their skills further as it applies to the everyday workplace. This is NOT ONLY a seminar on electrical theory; the discussion will be on practical applications.

"Hands-On" Training. Students will build and experiment with circuits constructed on our fully equipped simulators. Anyone desiring an in-depth understanding and appreciation of electrical systems, component operation and troubleshooting techniques will benefit from this training. Time is spent equally between lecture and hands-on lab experiments.

COURSE TOPICS:

- Introduction To Electricity
- Introduction To Electrical Components
- Current
- Voltage
- Resistance
- · Ohm's Law
- · Kirchhoff's Law
- Generator Principles
- Single Phase Distribution
- Three Phase Distribution
- Magnetism
- Transformers
- Conductivity
- Sizing Conductors

- Circuit Protection
- Circuit Protection Sizing
- Grounding
- Electrical Graphic Symbols
- Relays & Contactors
- Resistors & Capacitors
- Photocells
- Motor Starters
- Heater Sizing
- Parallel Circuits
- Series Circuits
- Ladder Logic
- Electrical Drawings
- Solenoids
- Solid State Devices

TROUBLESHOOT CIRCUITS & COMPONENTS USED IN:

- Basic Control Circuits
- Remote Start/Stop
- Circuits
- Time Delay Circuits
- Reversing Circuits
- Run/Jog Circuits
- Sequencing Circuits
- Two Speed Motor Controls
- Time Delay/Off Circuits
- Overload Protection
- Transformers



MULTIMETER USED TO TROUBLESHOOT:

- Motors
- Motor Starters
- Relays
- Limit Switches

- Photocells
- Timers
- Circuit Protection

NOTE: Attendees should bring their own multimeter for this "Hands-On" training





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COURSE INCLUDES

Lab Manual Certificate of Completion All Materials and Supplies



REGISTRATION FORM

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

PLFASE LISE	Δ SFPΔRΔΤΕ	FORM FOR	EACH COURSE	NUMBER
PLLAJL UJL	AJLFANAIL	FUNIVI FUN	LACH COUNSE	INCIVIDED

COURSE LOCATION:	COURSE DATES:				
STUDENT:					
ADDRESS:					
	STATE: ZIP:				
PERSON TO CONTACT IF THERE IS A CHANGE IN SCHEDULE:					
PHONE:	EXT:				
EMAIL:					
SELECT PAYMENT METHOD:					
STUDENT(s) @ \$1,895 PER PERSON TOTAL \$					
☐ CHECK IS ENCLOSED					
☐ USE OUR PURCHASE ORDER NO					
□ VISA □ M/C □ AMEX	CARD HOLDER				
CARD NUMBER:	EXP:CVV:				

Class Schedule:

7:30 A.M. – 3:30 P.M. ENROLL TODAY, classes fill quickly 3-Day Seminar \$1,895 Per Person LUNCH (NOT PROVIDED) 11:00 A.M. – 12:00 P.M. On-Site Programs Available

For more information or to register contact us:

800-704-1066 or email info@nfpitraining.com