



Electronics Circuit Refresher and Troubleshooting CGTCECRT101

Course Description

The Electronics Circuit Refresher and Troubleshooting course provides 40 hours of theory and hands-on troubleshooting for students that have experience working in the field of electronics as a technician. The course provides a brief review of theories and hands-on training in the following areas of electronic circuitry: Direct Current, Alternating Current, Solid State, Linear, and Digital electronic circuits. Troubleshooting and schematic reading are incorporated into the course work in all labs.

Prerequisite: None

Instructor to student ratio: 1:15

Course length: 40 hours

Training Syllabus: Electronics Circuit Refresher and Troubleshooting (CGTCECRT101)

- Multimeter Measurements
- Basic DC Circuits
 - Series Ckt
 - Parallel Ckt
 - Series-Parallel Ckt
- Complex DC Circuits
- AC Test Equipment
 - Oscilloscope
 - Frequency Generator
 - Freq. Counter
- Schematic Reading
- RL Circuits
- RC Circuits
- RC Time Constants & Transients
- RLC Ckt
- Resonant Ckt
- Transformers
- Relays & Switches Ckt
- Limiter Clamper Ckt
- Transister Amplifiers
 - Common-Emitter Ckt
 - Common-Collector Ckt
 - Common-Base Ckt
- Power Supply & Voltage Regulator Ckt
- Multistage Amplifier

- FET Amplifier
- Sine Wave Osc.
- Non-Sine Wave Osc.
- Multivibrator
- Schmitt Trigger
- SCR Trigger Ckt
- Operational Amplifiers
- Digital Logic Ckt
- Combinational Logic Ckts
- Flip-Flop Ckts
- Register and Memory Ckts
- Arithmetic and Counting Ckt
- D\A Conversion Ckt
- Troubleshooting Digital Systems
- On-Base Continuum