



Southern California Regional Transit Training Consortium

SYLLABUS

COURSE NAME: *Advanced Electrical Systems on Transit*

Course Item Number: **SC-EL-1600-II**

Prerequisites: DVOM Course, (preferred) or thorough understanding of meters or equivalent experience. Electrical I course completion or equivalent experience.

Course Description: The class is designed to improve technicians' electrical skills and circuit diagnosis. Students will be working with a Digital Volt Ohm Meter (DVOM), in real circuit conditions. This course integrates the complex system operation of relays and switching on the chassis side of operation. Micro and macro switching operate the doors, wheel lift sensors, and the engine sensor parameters. Without a thorough understanding of the theory of operation, a modern technician cannot fully diagnose the system with any accuracy.

Course Benefits: The benefit of this course is designed to prepare the students for advanced electrical circuits, symbol understanding, schematic reading and circuit troubleshooting. Students will gain knowledge about circuit construction, voltage drop techniques and problem solving skills needed for relay and device controlled circuits.

What you will learn:

- Advanced use of DVOM meters in troubleshooting electrical circuits
- Symbol designation
- Schematic symbol reading
- Voltage drop techniques
- Electric circuit problem solving
- Relay control circuits
- Circuit component analysis
- Switch diagnosis techniques

Number of Days: 2

Continuing Education Units (CEU): 0

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