



Southern California Regional Transit Training Consortium

SYLLABUS

COURSE NAME: Network Systems Electronics Diagnosis and Repair

COURSE # **SC-EL-1600-V**

COURSE DESCRIPTION

This course integrates the complex system operation of three of the major suppliers of communication systems with various communication operating protocols. This course features the most intense lab activities, due to the complexity of the J1587 / J1708 / J1939 reporting and sensing functions in the modern transit chassis. This course is intended for the individual who has completed the previous four modules and has experience in the proper wiring harness repair techniques following symbols and manufactures schematics. Upon completion of this course, the student will not only have a complete understanding of the data backbone and communication logic they can also use. This lab series is designed to simplifying diagnostic procedures in the work place.

PREREQUISITES

Course prerequisites include proficiency in # SC-EL-1600-I, SC-EL-1600-II, SC-EL-1600-II, SC-EL-1600-III and SC-EL-1600-IV; Technicians attending this course must have Allen Bradley / Dinex / Vansco protocol experience.

WHO SHOULD ATTEND

This course is intended for the supervisor, technician who needs an overview of computer operating systems basic diagnosis. Other items are wiring harness repair techniques, and ladder logic fundamentals following symbols and manufactures schematics.

Day One

- Serial communication operation
 - Allen Bradley/Dinex/Vansco overviews
 - Common failures
 - SAE J1939, current heavy duty data bus that uses CAN 2 architecture used in network communications.
 - High speed switching language
 - "FUZZY LOGIC" language
 - Ladder Logic language

There are a series of hands on diagnostic labs accompanying this course. Technicians should attend prepared to work on a live chassis.

Number of Days: 2

Continuing Education Units (CEU): 0

Register **today** to reserve a spot
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