



Southern California Regional Transit Training Consortium

COURSE NAME: Cummins 8.3L Advanced Computerized Engine Management Systems

Course Item Number: #SC-CG-1701-I

Prerequisites: Familiarity with Multi-meters and Electrical I and Cummins 8.3L Basic Computerized Engine Management Systems

Course Description: This course is designed to provide technicians the advanced skills needed to diagnose and repair the Cummins 8.3L CNG fuel system. The course covers sensors, actuators, pin-out voltage values, ignition system, Cummins software 'Insite' program and advanced diagnostic routines. This course is essential for those seeking to continue their education in diagnostic process and repair functions. Upon completion of this course, students should be able to successfully diagnose and repair the Cummins 8.3L fuel injection system.

Course Benefits: The benefit of this course is designed to prepare the students to understand the advanced electronic and safety aspects of working on Natural Gas fuel systems as used on the Cummins 8.3L engine. This class is a must for technicians and those who are involved with advanced diagnosis and repair of engine management and fuel delivery systems. Students will learn the proper and safe methods of working with the high pressure CNG fuel systems using the laptop diagnostic software specific to the Cummins controllers.

Who should attend

This course is intended for technicians seeking to improve their knowledge on Cummins computerized engine management systems.

What you will learn:

- Unique characteristics of Natural Gas as an Alternative Fuel
- An improved knowledge of the operation and diagnostic procedures of the 8.3 ignition system, fuel system, boost system and their components
- An improved knowledge of 8.3L sensor values
- An improved knowledge pin-out voltages
- An improved knowledge diagnostic techniques including actuator and ignition system diagnostics
- A knowledge of waveform analysis
- Lab activities related to the Cummins 'Insite' software

Course Times: 7 am – 3:30 pm (Subject to change – refer to the Registration)

Number of Days: 3

Continuing Education Units (CEU): 0

Register **today** to reserve a spot
www.scrttc.com