



Southern California Regional Transit Training Consortium

SYLLABUS

COURSE NAME: Cummins 8.9 ISL-G Familiarization

Course Item Number: #SC-CG-1700-II

Prerequisites: None. Some familiarity with CNG engines encouraged.

Course Description: This class is available to all students who have little or no knowledge of Cummins ISL-G Natural Gas engines. This class will provide students with instruction of maintenance procedures, engine familiarization and basic knowledge of the fuel, ignition and turbo systems along with basic operation and use of the Cummins Insite software to be used with trouble-shooting on a laptop computer.

Course Benefits: The benefit of this course is designed to prepare the students to understand the electronic and safety aspects of working on Natural Gas fuel systems as used on the Cummins ISL-G engine. This class is a must for new technicians and those who are involved with 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.

What you will learn:

- Unique characteristics of Natural Gas as an Alternative Fuel.
- CM2180A Electronic Control System.
- An understanding of the operation and diagnostic procedures of the ISL-G ignition system, fuel system, boost system and their components.
- An understanding of the principles of the "Cooled EGR "system.
- An understanding of the principles of the 3-way exhaust catalyst.
- How to demonstrate to the instructor the ability to properly perform diagnostic and repair procedures on the ISL-G engine system using Cummins Insite Software on a laptop computer.

Course Times: 7:00am – 3:30pm (Subject to change – Check Registration)

Number of Hours/Days: 24 Hours / 3-days

Continuing Education Units (CEU): 0

Register **today** to reserve a spot

www.scrttc.com