

# HATN185N : Engine Performance I

The basic theory of engine performance and its effect on emissions will be discussed in depth. The operation and interactions of the ignition, fuel, valve timing, throttle and modulated displacement systems and their individual effects on emissions, performance and fuel economy will be explored. Included in the study will be sensor operations, diagnosis and testing required to service and repair engine malfunctions related to the ignition, fuel and emission controls. All relevant computer controlled system operation will be discussed in this course with emphasis given to Honda preferred diagnostic procedures. In addition, students will be reintroduced to scan tool diagnostics as well as advanced diagnostic procedures utilized by Honda.

**Class Hours** 2

**Lab Hours** 4 **Credits** 4

**Prerequisites**

HATN113N, HATN121N.