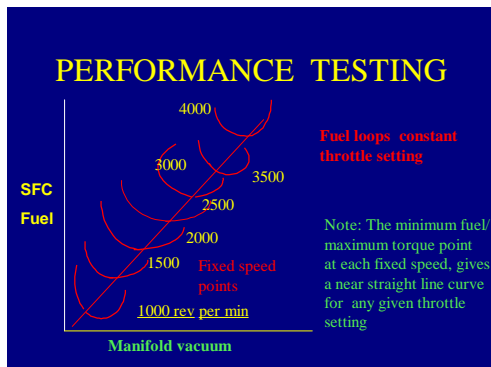
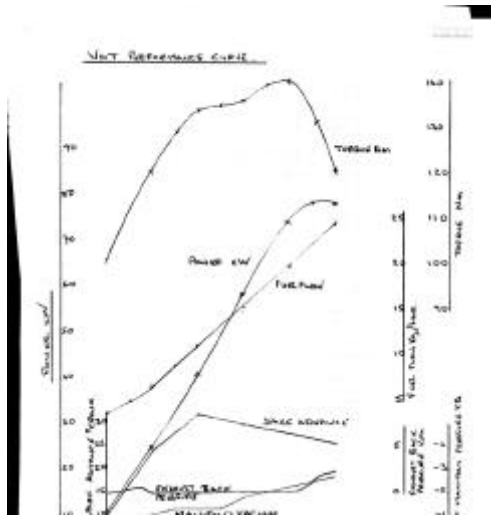


## ADVANCED PERFORMANCE TESTING part 1

### A one-day course

**The object of the course.** To further develop with client engineers the advanced skills that are required in fixing definitive, fuel, ignition and emission levels.



#### Course Contents:

##### ?? Combustion in the Spark Ignition Engine

- The four-stroke principle
- Air-Fuel mixture

##### ?? Base Testing

- The need for stabilisation
- Correlation of calibration
- Thermal Efficiency
- Volumetric Efficiency
- Pressure/Volume Curve

##### ?? Measurement of Power

- Kw/BHP
- Torque/BMEP
- BSFC
- AFR

##### ?? Mechanical Efficiency Measurement

- Morse Test
- Motoring tests
- Willan's Line

##### ?? Fuel Loops

- ?? Method of operation
- ?? LBT
- ?? Full Load/Part Load
- ?? World Wide Mapping Points

##### ?? Ignition Loops

- Method of operation
- MBT, MBT-L
- TLA/BLA/BLD

##### ?? Emission Loops

- Fixed BMEP
- Effect of LBT & MBT on total gaseous emissions