

# CHASSIS DYNAMOMETER

## Dynamometry and Vehicle Testing (1 day)

Price RM 650 per pax ( minimum 10 pax)

A **chassis dynamometer**, sometimes referred to as a rolling road, measures power delivered to the surface of the "drive roller" by the drive wheels. The vehicle is often parked on the roller or rollers, which the car then turns, and the output measured thereby. Dynamometers are used to test motor and engine performance and fine-tune them to maximize power output and/or efficiency.

Topic covers:

- Vehicle Dynamics: What do we need to measure?
- Basics Dynamometer
- Various Dynamometer Designs
- Mechanical Details
- road simulation
- vehicle emission
- constant speed fuel consumption
- Vehicle performance.
- Instrumentation Issues
- Testing: Steady State vs. Transient
- Controllers
- Dynamometer Dynamics
- Drive Cycles Analysis
- Drive Cycles: steady state vs. transient
- Dynamometry Case Studies

