

Petroleum products: Specifications Properties Market Demand

This course is designed to provide you with a deep knowledge of petroleum products' **properties, specifications, markets and demands**.

The petroleum products covered are the following:

- **LPG**
- **Automotive Gasoline**
- **Kerosene / Jet fuel**
- **Gas oil**
- **Heating oil**
- **Heavy fuel oil**
- **Naphtha**
- **Asphalts**
- **Lubricating oil**

The course also provides technical knowledge related to the **standard quality control tests** performed in refineries and petrochemical plants to ensure that the finished products are in line with commercial specifications.

You will learn:

Volatility specifications for:

- Automotive gasoline
- Jet fuel
- Diesel fuel
- Heating fuel
- Heavy fuel oil
- Paraffinic base oils

- Asphalts

Combustion specifications for:

- Automotive gasoline
- Jet fuel - Jet A1
- Diesel fuel
- Heating fuel
- Heavy fuel oil

Cold condition behavior and flowing specifications for:

- Jet fuel - Jet A1
- Diesel fuel
- Heating fuel
- Heavy fuel oil

Pollution and corrosiveness specifications:

- Sulfur content
- Corrosiveness
- Miscellaneous pollutants

Stability specifications:

- Automotive gasoline
- Jet fuel
- Diesel fuel
- Heating fuel
- Heavy fuel oil

Asphalts specifications

Lube base oil specifications

STANDARD QUALITY CONTROL TESTS OF PETROLEUM PRODUCTS

TESTS RELATED TO VOLATILITY:

- ASTM distillation test

- Reid vapor pressure
- Flash point

TESTS RELATED TO COMBUSTION:

- Octane number of gasoline
- Cetane number of diesel fuel
- Smoke point for aviation turbine fuels
- Standard test related to fuel combustion

TESTS RELATED TO STORAGE AND FLOWING:

- Viscosity measurements
- Lubricating properties of diesel fuel
- Cloud point
- Pour point
- Filterability limit
- Freezing point

TESTS RELATED TO AIR POLLUTION AND CORROSIVENESS:

- Air pollution and corrosion due to sulfur
- Sulfur measurements
- Copper strip corrosion
- Doctor test

TESTS RELATED TO STABILITY OF MOTOR GASOLINE, TURBINE FUELS AND DISTILLATES:

- Gum content
- Induction period
- Fuel stability
- Oxidation stability of diesel fuel
- Water and sediment
- Asphaltene precipitation with normal heptane
- Insoluble content test
- Color and color stability tests

TESTS RELATED TO ASPHALTS:

- Needle penetration
- Softening point

This course for:

- Technicians
- Petroleum Engineers
- Production Engineers
- Marketing teams
- Petrochemical Engineers
- Automotive Engineers

Course Duration

5 Days