

# Clean Fuel Specifications and Product Release Training Course

29 August – 2 September 2027
Johannesburg

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Training Center

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## Overview

Clean Fuel Specifications and Product Release Training Course is a one-week course for refinery, laboratory, blending, quality, environmental, and technical-services functions who leave with a Clean Fuel Specification, Testing and Release Decision File. Participants connect fuel properties, production routes, specification structures, representative samples, test evidence, engine effects, emissions relationships, blending limits, and release decisions. The course uses product-property matrices, method-selection sheets, conformity records, trend charts, and investigation logs. Agile Leaders Training Center presents clean fuel specifications and product release.

## Who Should Attend

- Refinery process functions responsible for treatment routes and finished-fuel quality
- Laboratory functions responsible for sampling plans, test selection, and result validity
- Blending functions responsible for component choices and finished-product conformity
- Product specification functions responsible for requirement interpretation and release evidence
- Environmental functions responsible for linking fuel properties with engine emissions
- Operations supervision functions responsible for quality holds and disposition decisions

The course assumes participants work with fuel specifications, laboratory reports, refinery streams, or product-quality records, and it leaves out laboratory instrument operation, engine maintenance, emissions inventories, and whole-refinery yield optimization.

## Departments and Industries

The course supports departments and industries that produce, test, store, blend, distribute, or use transportation fuels.

- Petroleum refining and fuel blending
- Independent petroleum laboratories and inspection services
- Fuel terminals, storage, and distribution
- Aviation fuel supply and airport fueling
- Automotive fuel quality and engine development
- Technical services and product assurance

## Learning Objectives

By the end of this course, participants will be able to:

- Analyze gasoline, diesel, and jet-fuel property requirements
- Compare ASTM, EN, and DEF STAN specification structures
- Evaluate production and treatment routes against clean-fuel targets
- Use representative sampling and test-method selection records
- Diagnose off-specification results through traceable evidence
- Build a controlled product-release decision file

## Course Agenda

## Day 1: Map Fuel Properties and Performance

- Clean Fuel Product and End-Use Classification Matrix
- Gasoline Octane, Volatility, Distillation, and Benzene Property Map
- Diesel Cetane, Lubricity, Stability, and Cold-Flow Property Map
- Jet Fuel Flash Point, Freezing Point, Density, and Thermal Stability Map
- Fuel Property, Combustion, Engine Performance, and Emissions Linkage Chart

## Day 2: Interpret Specifications and Requirements

- ASTM D4814 Gasoline Specification Structure
- ASTM D975 Diesel Fuel Specification Structure
- ASTM D1655 Aviation Turbine Fuel Specification Structure
- EN 228, EN 590, and Euro 5 and Euro 6 Requirement Crosswalk
- DEF STAN 91-091 Jet Fuel Requirement Register

## Day 3: Connect Production and Blending

- Desulfurization and Aromatics-Reduction Route Selection Sheet
- Gasoline Reformate, Alkylate, Isomerate, and Oxygenate Blend Matrix
- Diesel Hydrotreatment, Cetane, Lubricity, and Cold-Flow Decision Sheet
- Jet Fuel Kerosene Stream, Additive, and Property Control Diagram
- Finished-Fuel Blend Constraint and Adjustment Record

## Day 4: Control Testing and Release Evidence

- Representative Sampling Point and Sample Integrity Plan
- Fuel Property and Test-Method Selection Matrix
- Laboratory Result Validation and Uncertainty Review Sheet
- Quality Monitoring Trend and Control-Limit Chart
- Product Conformity, Hold, Release, and Certificate Evidence Checklist

## Day 5: Practice Fuel Release Decisions

- Suggested Exercise: Interpret a Gasoline Specification and Test Report
- Suggested Exercise: Resolve a Diesel Cold-Flow and Lubricity Constraint
- Suggested Exercise: Evaluate a Jet Fuel Quality Monitoring Trend
- Suggested Exercise: Investigate an Off-Specification Fuel Batch
- Capstone Exercise: Complete the Clean Fuel Specification, Testing and Release Decision File

## Practical Exercises

The course uses suggested activities to convert specifications, samples, results, and blend evidence into controlled fuel-quality decisions.

- Suggested activity: compare gasoline, diesel, and jet-fuel property limits across specification structures.
- Suggested activity: select sampling points and test methods for a finished-fuel release case.
- Suggested activity: trace an unexpected result through sampling, method, calculation, and blending evidence.
- Suggested activity: document a hold, investigation, disposition, and release recommendation.

## FAQs

### Who suits clean fuel specifications and product release training, and what does it assume?

Clean fuel specifications and product release training suits refinery, laboratory, blending, product-quality, environmental, technical-services, and supervisory functions. It assumes working familiarity with fuel properties, specifications, test reports, process streams, or quality records.

### How does clean fuel specifications training differ from crude and petroleum inspection training?

Clean fuel specifications training centers on finished gasoline, diesel, and jet-fuel requirements, test interpretation, quality monitoring, and release. Inspection training centers on quantity, custody transfer, sampling operations, and cargo documentation across crude and products.

### Which properties drive gasoline diesel and jet fuel release decisions?

Release decisions use product-specific evidence such as octane, cetane, volatility, distillation, sulfur, aromatics, lubricity, stability, cold-flow behavior, flash point, freezing point, density, and thermal stability.

## How do fuel standards and test methods work together?

Fuel standards define product requirements and referenced methods establish how properties are measured. A release decision connects the applicable specification, representative sample, valid method, controlled result, and approved disposition.

## How are off-specification fuel results investigated?

Off-specification fuel results are investigated by checking sample identity and integrity, method execution, calculations, instrument-control evidence, repeatability, blend history, contamination routes, and production conditions before disposition.

## Conclusion

Participants take back a Clean Fuel Specification, Testing and Release Decision File linking product requirements, samples, methods, results, trends, blend evidence, and dispositions. It changes scattered quality records into one traceable release basis. The file supports specification reviews, quality holds, off-specification investigations, blend adjustments, and technical communication.