
ADVANCING STANDARDS
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Choose a training program or course that's right for you. Whether it's our award-winning in-person continuing education courses or our industry-leading online training programs, you'll find the focused, practical and expert training you need.
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– Environment
– Light Sport Aircraft
– Metals
– Oxygen
– Plastics
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Cannabis

INTRODUCTION TO CORRECTIVE ACTION PREVENTIVE ACTION, CAPA, FOR THE CANNABIS INDUSTRY

Price: $199

This course covers the foundations for implementing and applying a Corrective Action and Preventive Action (CAPA) program for the cannabis industry, in conformance with ASTM D8229. You will gain an understanding of how to use this standard in your business, the benefits of a CAPA program, and how it will ensure compliance with any federal, state, or local requirements.

Coal

COAL CHEMISTRY TECHNICIAN TRAINING

Price: $1,299

This one-and-a-half day course provides comprehensive training on the coal characterization standards that are used in laboratories around the world. The course offers a review of good laboratory practices in coal chemistry focusing on the standards most frequently used in coal chemistry labs.

Corrosion

UNDERSTANDING AND APPLICATION OF ASTM B117

Price: $899

This focused one-day training course delivers comprehensive instruction on Salt Fog Corrosion Testing using ASTM B117. Participants will be guided step-by-step through the standard and its supporting documents, gaining hands-on understanding of equipment use, test procedures, and compliance essentials.

Whether you're new to corrosion testing or looking to deepen your expertise, this course offers practical knowledge that can be applied immediately in the lab or field.

CORROSION ELECTROCHEMISTRY: THEORY AND TESTING

Price: $1599

The objective of the course is to educate students to properly use electrochemical techniques for measuring corrosion in the laboratory tests and for monitoring corrosion in the field.

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CORROSION INHIBITORS FOR OIL AND GAS INDUSTRY: TESTING, SELECTION, APPLICATION, AND MONITORING

Price: $1599

Global annual cost of corrosion is estimated at US $ 2.5 trillion, equivalent to approximately 3.4 percent of global Gross Domestic Product (GDP). Time-tested and proven methodologies to control corrosion are corrosion inhibitors, coatings, cathodic protection, and materials. Corrosion inhibitors are the most effective strategies control internal corrosion of carbon steel pipelines and infrastructures of oil and gas industry. The global corrosion inhibitors market about USD 10 billion; oil and gas industry use about 90% corrosion inhibitors.

The general objective of the course is to educate students to properly to test, select, apply, and monitor corrosion inhibitors.

Energy

ASTM AVIATION FUELS

Price: $1,599

This extensive 3-day class provides broad coverage of aviation fuel specifications and test methods. The course focuses on how specifications are used to control the quality of aviation fuels and why they affect product performance and availability. Emphasizing practical applications, the course covers the development of specifications and methods, highlights past and current problems, explains methods of testing and manufacturing aviation fuels and discusses transportation systems. Interaction of aviation fuels with aircraft engines and ground equipment is also stressed.

CRUDE OIL: SAMPLING, TESTING, AND EVALUATION

Price: $1,599

This extensive class covers the sampling, analysis and evaluation of crude oil. You'll gain an understanding of crude oil analytical measurement, composition and classification; quality variations and what causes them; sampling (both manual and automatic); inspection, assays and test methods; basic crude oil evaluation; quality case studies; current challenges and future needs in characterization, and much more.

FUELS TECHNOLOGY – HANDS ON COURSE

Price: $1,799

This extensive 4-day hands-on training class provides broad coverage of the specifications, testing and technology related to gasoline (days 1 and 2) and diesel fuel oil (days 3 and 4). You'll learn about the different types and components of gasoline, ways to enhance octane, the various types of volatility, the purpose of sampling, and the stages of drivability. The course covers specifications related to gasoline, discusses gasoline additives, oxygenates, the refining process, the quality and distribution of fuels. On days 3 and 4, the training relates the test methods to specifications (ASTM D975), quality issues, distribution and diesel engine technology.

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DIESEL FUELS: SPECIFICATIONS AND TEST METHODS

Price:$1,599

This course covers a wide range of diesel fuel issues including specifications (ASTM D975, EN590, and other standards) alternate fuels like biodiesel and paraffinic diesel, test methods, sampling and quality control, distribution, and current issues.

GASOLINE: SPECIFICATIONS, TESTING, AND TECHNOLOGY

Price: $1,599

This extensive class provides broad coverage of the specifications, testing, technology, and U.S. regulations related to gasoline. You'll learn about the different types and components of gasoline, octane number, volatility, drivability, as well as product quality control throughout the motor gasoline product value chain. The course covers the ASTM, organization, it's D02 Committee and D02.A Subcommittee on Gasoline, specifications related to gasoline, gasoline additives, oxygenates, the refining process, the quality and distribution of fuels, and much more.

STATISTICS IN ASTM STANDARD TEST METHOD DEVELOPMENT, APPLICATION, AND QUALITY ASSURANCE

Price: $1,599

This course provides detailed methodology on how to set up Statistical Control Charts relevant to test method performance monitoring over time as per ASTM D6299. The course begins with an overview of the importance of data trustworthiness as a key business driver, followed by understanding common cause variation between test results using Statistical Thinking. Precision fundamentals, Industry standard test method precision performance metrics such as repeatability, reproducibility, site precision, and associated business applications will be presented in detail as the first topic, to serve as a foundation upon which the Statistical Control Charts methodology are based on.

UNDERSTANDING TEST METHOD PRECISION, BIAS, ILS DESIGN, STATISTICAL QUALITY CONTROL CHARTS

Price: $899

This seminar will present an overview on test method precision, bias, ILS design, and statistical control charts. ASTM repeatability, reproducibility, intermediate precision, and bias will be discussed, along with ASTM D6300 ILS design requirements to establish r, R, and critical success factors. Test method "in-statistical-control" concept will be discussed along with control chart work process and tools per ASTM D6299.

MARINE FUELS: SPECIFICATIONS, TESTING, PURCHASE, AND USE

Price: $1,599

This class explains how the properties of marine fuels affect fuel handling, combustion, and cost. It provides a detailed understanding of fuel quality requirements, and why they are necessary for good handling and combustion performance. Class interaction will be stressed by using practical examples of applications of the course material to past and current problems.

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RENEWABLE FUELS: SCIENCE, STANDARDS, AND SUSTAINABILITY

Price: $1,299

The ASTM Renewable Fuels course is an introduction to renewable fuels for both ground and aviation use. The course covers first-generation renewable fuels ethanol and biodiesel, now in wide use across the globe. Second-generation renewable fuels are also discussed, comparing their advantages and challenges for implementation. The concepts of life cycle analysis used to qualify the benefits in carbon emissions reductions are presented. Several process pathways for second-generation renewable fuels are discussed. The process pathways for Synthetic Aviation Turbine Fuel are presented and discussed. Hydrogen and e-fuels are also reviewed. For more detailed technical information on gasoline, diesel fuel, aviation, and marine fuels, ASTM courses are available.

Environment

ASTM E3164 STANDARD GUIDE FOR CONTAMINATED SEDIMENT SITE RISK-BASED CORRECTIVE ACTION

Price: $899

The course covers ASTM E3164 Standard Guide for Contaminated Sediment Site Risk-Based Corrective Action – Baseline, Remedy Implementation and Post-Remedy Monitoring Programs and ASTM E3242 Standard Guide for Developing Representative Background Concentrations at Sediment Sites — Data Evaluation and Calculation Methodologies.

ASTM STANDARD GUIDES FOR NON-AQUEOUS PHASE LIQUID (NAPL) MOBILITY AND MIGRATION IN SEDIMENT

Price: $499

The course provides an overview of ASTM standard guides focused on NAPL mobility and migration in sediment. This course covers the following ASTM Standard Guides for NAPL Mobility and Migration in Sediment: ASTM E3248 Conceptual Models for Emplacement and Advection, ASTM E3268 Sample Collection, Field Screening, and Sample Handling, ASTM E3281 Screening Process to Categorize Samples for Laboratory NAPL Mobility Testing, ASTM E3282 Evaluation Metrics, and ASTM E3300 Evaluating Ebullition and Associated NAPL/Contaminant Transport.

ASTM E3240 STANDARD GUIDE FOR RISK-BASED CORRECT ACTION (RBCA) FOR CONTAMINATED SEDIMENTS SITES AND ASTM E3163 STANDARD GUIDE FOR SELECTION AND APPLICATION OF ANALYTICAL METHODS AND PROCEDURES USED DURING SEDIMENT CORRECTIVE ACTION

Price: $499

This course covers ASTM E3240 Standard Guide for Risk-Based Corrective Action (RBCA) for Contaminated Sediment Sites and ASTM E3163 Standard Guide for Selection and Application of Analytical Methods and Procedures Used during Sediment Corrective Action. The first part of the course provides an overview of ASTM E3240 and educates attendees on the framework for developing a RBCA process at a contaminated sediment site. The E3240 RBCA framework integrates

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risk assessment into the corrective action process so that actions are protective of human health and the environment. The second part of the course provides an overview of ASTM E3163 and educates the attendees on the analytical methods and testing protocols commonly used during a sediment program and provides a framework for selecting and applying the methods and tests to best achieve sediment program objectives.

ENVIRONMENTAL LIABILITIES COURSE

Price: $495

With the development of Federal environmental laws, new accounting principles and stakeholder expectations have become part of the ASTM Standard setting activity. This course reviews five key ASTM documents covering the valuation, settlement and reporting of all types of environmental liabilities. Any scientific, project management, legal or accounting specialist seeking to grow within the strategic framework of a larger organization will improve their understanding of the challenges of environmental liabilities and how to address them.

ESTIMATING LNAPL TRANSMISSIVITY: A GUIDE TO USING ASTM STANDARD GUIDE E2856

Price: Private team training. Contact ASTM Sales for pricing.

You'll build a critical foundation for understanding estimation of LNAPL Transmissivity (Tn). These concepts will teach you about the practical limits for hydraulic recovery of subsurface petroleum and create effective remedial strategies. You will learn how multiple occurrences of LNAPL (confined, perched, unconfined) affect LNAPL Tn, as well as discern which calculation methods are appropriate for each condition. Topics will include analyzing skimming test data, baildown test data, and previously collected remediation system data.

PHASE I & PHASE II ENVIRONMENTAL SITE ASSESSMENT PROCESSES

Price: $1,699

This course covers the ASTM Environmental Site Assessment Standard Practices for the Phase I Site Assessment (E1527) and the Phase II Environmental Site Assessment (E1903). You will gain an understanding of what is required by the standards, how to use the standards, and how the standards affect the way you do business.

PHASE I ENVIRONMENTAL SITE ASSESSMENT PRACTICES FOR COMMERCIAL REAL ESTATE: PHASE I SITE ASSESSMENT & TRANSACTION SCREEN

Price: $1,399

This course covers the ASTM Environmental Site Assessment Standard Practices for the Phase I Site Assessment Process (E1527) and the Transaction Screen Process (E1528). You will gain an understanding of how to use the standards and how the standards affect the way you do business.

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PHASE II ENVIRONMENTAL SITE ASSESSMENT PROCESS

Price: $995

In this 2-day course you'll:

- Learn how to properly plan and perform Phase II investigations into Recognized Environmental Conditions (RECs) using the methodology in ASTM E1903 Standard Guide for Phase II Environmental Site Assessments.
- Learn the various approaches used in the Phase II process to generate additional information regarding the identification and nature of potential contaminants associated with RECs identified during the Phase I and/or Transaction Screen Processes to assist in making informed business decisions concerning commercial real estate transactions.
- Gain an understanding of the level of knowledge necessary to satisfy the innocent purchaser defense under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and why due diligence is necessary.

PROPERTY CONDITION ASSESSMENTS

Price: $1,299

This course gives you an overview of the ASTM Property Condition Assessment (PCA) standard (ASTM E2018) and explains why it was developed. It provides an excellent guide on how to use the standard to conduct a baseline property condition assessment and how to prepare a Property Condition Report (PCR).

RISK-BASED CORRECTIVE ACTION (RBCA) APPLIED AT PETROLEUM RELEASE SITES

Price: $1,299

The USEPA has endorsed the use of risk-based decision-making in underground storage tank (UST) corrective action programs. The course will provide you with an understanding of the differences between RBCA and the traditional corrective action process. The course identifies the role of risk assessment and fate and transport in the RBCA process and emphasizes the importance of exposure assessment. The course describes the concepts of the RBCA process and provides an understanding of the development of the target levels (cleanup levels).

BUILDING ENERGY PERFORMANCE AND IMPROVEMENT EVALUATION (BEPIE)

Price: $1,299

This course will review the methodology to conduct a building energy performance (BEPIE) screen. The BEPIE will allow a building's energy performance to be evaluated and compared to peer buildings. If under-performing compared to peers, potential energy improvements and the cost to achieve parity with peers would be determined. The methodology may be used independently or in conjunction with an E2018 property condition assessment (PCA) performed as part of pre-acquisition due diligence. All attendees will receive a certificate from ASTM acknowledging attendance at the course. In addition, attendees may choose to take a one-hour exam (optional). Those passing the exam will have their name listed in ASTM's on-line registry.

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ASTM E2600 SCREENING FOR VAPOR ENCROACHMENT ONTO PROPERTY INVOLVED IN REAL ESTATE TRANSACTIONS

Price: Private team training. Contact ASTM Sales for pricing.

The popular ASTM E2600 course is now available online! Vapor encroachment into the subsurface of a property involved in a real estate transaction can potentially create significant issues for the deal. The methodology in the ASTM E2600-15 Standard Guide for Vapor Encroachment Screening on Property was developed for use by environmental professionals conducting due diligence to facilitate screening a property for a possible vapor encroachment condition (VEC). This online course offers you the same great content you've come to expect in person.

ACTIVITY AND USE LIMITATIONS (AULS) ALSO KNOWN AS INSTITUTIONAL CONTROLS, DEED RESTRICTIONS, OR LAND USE CONTROLS

Price: Private team training. Contact ASTM Sales for pricing.

Many states have adopted voluntary corrective action programs and Brownfields programs that use risk-based corrective action principles. A common element of these programs is the use of Activity and Use Limitations (AULs) (also referred to as "Institutional Controls", "Deed Restrictions', or "Land Use Controls") to achieve either an "acceptable risk" or a "no significant risk" level.

ENVIRONMENTAL REGULATORY COMPLIANCE AUDITS

Price: Private team training. Contact ASTM Sales for pricing.

Though the scope of corporate or facility environmental management has blossomed to include management systems, sustainability, greening, and more, environmental regulatory compliance remains a top concern of managers and executives. One reason is that unlike most other environmental programs, stiff financial fines and penalties are a real consequence of noncompliance.

Light Sport Aircraft

ASTM STANDARDS FOR LIGHT SPORT AIRCRAFT

Price: $1,150

This three-day course gives LSA manufacturers the tools they need to establish and maintain staff that are trained in the use and implementation of industry standards. It provides a general overview of all relevant ASTM Committee F37 standards referenced in LSA regulations by FAA, EASA, and other authorities worldwide. It provides a more focused, compliance-oriented review of specific standards relating to quality assurance, continued operational safety, and design & performance.

Note:
Students are expected to have an understanding of the standards developed by ASTM's Committee F37 on Light Sport Aircraft.

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Metals

ASTM HARDNESS TESTING: BEST PRACTICES COVERING THEORY, OPERATION, AND VARIOUS HARDNESS TESTING APPLICATIONS

Price: $1,250

ASTM International has partnered with Tinius Olsen to provide you with a best-in-class learning experience. This training course is a series of educational interactive training sessions where the attendees will gain hands-on experience. You will be able to describe principles, techniques and mechanical properties in respect to hardness testing as well as demonstrate proper use of ASTM Test Methods. Practical and written examinations will be conducted during the course.

PRINCIPLES OF METALLURGY WEBINAR

Price: $125

In this webinar you will learn about metallurgical factors that influence metal properties and how microscopic structures in metals are modified by alloying, heat treatment, and cold working.

This information will

- Provide insights into how a metal's composition and microstructure can be engineered to get the strength, and other properties, needed for metal components.
- Give a better sense of the questions and considerations when trying to fix quality problems and assessing suppliers.

STEEL METALLURGY WEBINAR

Price: $125

During this webinar you will learn about the effects of steel alloy composition and steel microstructure on carbon steel strength and hardness and how microstructure is modified by alloy composition, cold working, and heat treating in order to obtain specific strength and hardness. Understanding these concepts is important for component design and productive conversations with component suppliers, heat treaters, and metallurgical labs.

STAINLESS STEEL WEBINAR

Price: $125

There are a wide variety of wrought stainless steel alloys, each designed to have specific properties. In this webinar, you'll learn about the metallurgical differences between commonly used stainless steels and factors that influence stainless steel strength and corrosion resistance.

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FAILURE ANALYSIS OF METAL PROBLEMS WEBINAR

Price: $125

Do you know the steps to take to quickly solve component reliability and quality problems?

When you receive results from a metallurgical lab, do you know what to do next?

Metallurgical failure analysis is an important step in towards determining the root cause of component failures and quality problems. But, many people struggle with the steps to take to get the information needed to quickly determine the root cause of problems.

FOUNDATIONS OF METALLURGY

Price: $35

There are two fundamental metallurgy principles and five metallurgy concepts that are the foundation for understanding metallurgy and applying it to design and manufacturing decisions and problems, i.e. producing stock materials, designing components, developing capable manufacturing processes, and improving supplier and production quality.

The two fundamental principles are based on the relationship between a metal's properties, its composition and microstructure, and the manufacturing processes used to produce the metal.

The five key metallurgy concepts are associated with metal microscopic structures that influence metal properties and changes that occur in metals during heat treating.

These principles and concepts apply to all metals.

Oxygen

FIRE HAZARDS IN OXYGEN SYSTEMS

Price: $1,299

In this two-day course you'll learn to identify and evaluate hazards in oxygen systems. You'll gain an understanding of safe practices in design, materials selection, and operation of oxygen systems, as well as related ASTM standards.

OXYGEN SYSTEMS OPERATIONS AND MAINTENANCE

Price: $499

This half-day course is specifically intended for anyone who operates or maintains any type of oxygen system. Topics include oxygen compatibility, identifying and evaluating hazards in oxygen systems, choosing materials to withstand the environment, and good practices for oxygen systems operations and maintenance.

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Plastics

MAJOR TESTING TECHNIQUES FOR PLASTICS: AN INTRODUCTION

Price: $1,599

This extensive three-day covers basic principles, techniques, and equipment for commonly-used mechanical and analytical tests on plastic materials. You'll learn about mechanical properties, chemical analysis, flammability, combustibility, instrumental analysis, thermal aging, and much more.

SUSTAINABLE MATERIALS & PRODUCTS: BIODEGRADABILITY AND BIOBASED CONTENT DEFINITIONS, STANDARDS, CLAIMS AND CERTIFICATION

Price: $,1299

This 12-hour virtual course spread over three consecutive days virtually or 1.5 days in person covers the basics of degradability and biodegradability, including the differences and similarities between them and also the basics of non-petroleum based content in materials and products. Topics covered include definitions, test methods and specifications, certification agencies and their requirements and claim requirements in the US. This course also identifies biodegradable materials and additives (plastic and fiber-based) and the basics of composting.

Rubber

RUBBER TESTING: SELECTING, PERFORMING, AND INTERPRETING ASTM RUBBER TEST METHODS

Price: $1,299

This course gives you a comprehensive overview of the most commonly used ASTM rubber test methods.

Statistics

STATISTICS IN ASTM STANDARD TEST METHOD DEVELOPMENT, APPLICATION, AND QUALITY ASSURANCE

Price: $1,599

In order to register, please enter the number of attendees in the appropriate box below and click add attendees.

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UNDERSTANDING TEST METHOD PRECISION, BIAS, ILS DESIGN, STATISTICAL QUALITY CONTROL CHARTS

Price: $899

This seminar will present an overview on test method precision, bias, ILS design, and statistical control charts. ASTM repeatability, reproducibility, intermediate precision, and bias will be discussed, along with ASTM D6300 ILS design requirements to establish r, R, and critical success factors. Test method "in-statistical-control" concept will be discussed along with control chart work process and tools per ASTM D6299.

WHY ORDINARY LINEAR REGRESSION SHOULD NOT BE USED TO DEVELOP CORRELATION BETWEEN TEST METHODS

Price: $150

This one hour webinar will begin at 10 am ET and provide a simple overview on the common uses and fundamental assumptions behind Ordinary Linear Regression (OLR), followed by an explanation on why the ReXY-based technique in ASTM D6708 Practice for Statistical Assessment and Improvement of Expected Agreement Between Two Test Methods that Purport to Measure the Same Property of a Material should be used instead of OLR to develop correlation between two methods that claim to measure the same property. The D6708 process, inputs, outputs, and failure modes will be presented.

Textiles

ASTM TEXTILE STANDARDS FOR YARNS AND SEWING THREADS

Price: Private team training. Contact ASTM Sales for pricing.

This one-day course will give you a basic understanding of:

- ASTM textile standards for spun and continuous filament yarn and sewing threads
- Testing applications for internal quality control
- Acceptance and certification testing
- The methods covered in this course are extensively used by all greige plants making yarn.

FLAMMABILITY OF CHILDREN'S SLEEPWEAR: REGULATORY COMPLIANCE

Price: Private team training. Contact ASTM Sales for pricing.

This one-day course will provide you with a basic understanding of the Flammable Fabrics Act, 16 CFR 1615 (Standard for the Flammability of Children's Sleepwear: Sizes 0 Through 6x) and 16 CFR 1616 (Standard for the Flammability of Children's Sleepwear: Sizes 7 Through 14). These federal standards apply to all children's sleepwear manufactured and distributed in the United States.

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FLAMMABILITY OF UPHOLSTERED FURNITURE, MATTRESSES AND BEDDING SOLD IN THE UNITED STATES: REGULATORY COMPLIANCE

Price: Private team training. Contact ASTM Sales for pricing.

This two-day course provides a basic understanding of mandatory and voluntary flammability performance and quality control test standards for upholstered furniture, mattresses, mattress/box spring sets, and bedding (bed clothing) offered for sale in the United States. Both open flame and smoldering tests will be covered.

FLAMMABILITY OF WEARING APPAREL: REGULATORY COMPLIANCE

Price: Private team training. Contact ASTM Sales for pricing.

This one-day course will provide you with a basic understanding of the Flammable Fabrics Act, 16 CFR 1610 (Standard for the Flammability of Clothing Textiles), which applies to all general wearing apparel manufactured and distributed in the United States.

TEXTILES: QUALITY AND PERFORMANCE STANDARDS

Price: Private team training. Contact ASTM Sales for pricing.

This two-day course will give you a basic understanding of ASTM standards commonly used for testing fabrics, apparel, and household textiles. It will also give you an overview of the ASTM care labeling symbols.

International Training

Our international instructors travel throughout the world to present our award-winning ASTM Training Programs. For more information, contact sales or call +1.877.909.2786.

ASTM D5002 STANDARD TEST METHOD FOR DENSITY, RELATIVE DENSITY, AND API GRAVITY OF CRUDE OILS BY DIGITAL DENSITY ANALYZER

ASTM D445 STANDARD TEST METHOD FOR KINEMATIC VISCOSITY OF TRANSPARENT AND OPAQUE LIQUIDS (AND CALCULATION OF DYNAMIC VISCOSITY)

ASTM D4294 STANDARD TEST METHOD FOR SULFUR IN PETROLEUM AND PETROLEUM PRODUCTS BY ENERGY DISPERSIVE X-RAY FLUORESCENCE SPECTROMETRY

ASTM D4814 STANDARD SPECIFICATION FOR AUTOMOTIVE SPARK-IGNITION ENGINE FUEL

ASTM D86 STANDARD TEST METHOD FOR DISTILLATION OF PETROLEUM PRODUCTS AND LIQUID FUELS AT ATMOSPHERIC PRESSURE

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SUSTAINABLE MATERIALS & PRODUCTS: BIODEGRADABILITY AND BIOBASED CONTENT DEFINITIONS, STANDARDS, CLAIMS AND CERTIFICATION

ASTM D396 STANDARD SPECIFICATION FOR FUEL OILS

ASTM D975 STANDARD SPECIFICATION FOR DIESEL FUEL

ASTM D6615 STANDARD SPECIFICATION FOR JET B WIDE CUT AVIATION TURBINE FUEL

SUSTAINABLE MATERIALS & PRODUCTS: BIODEGRADABILITY AND BIOBASED CONTENT DEFINITIONS, STANDARDS, CLAIMS AND CERTIFICATION

ADVANCING STANDARDS
TRANSFORMING MARKETS

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