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2025

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Helping Our World Work Better®



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Building and Construction

eLearning Programs

[Emulsified Asphalt](#)

[Asphalt Binder](#)

[Asphalt Mixture](#)

[Asphalt Mixture Field Technician](#)

[Performance Grade Bitumen](#)

ASPHALT

ASTM D5 — Standard Test Method for Water and Sediment in Crude Oil by the Centrifuge Method (Laboratory Procedure)

ASTM D6 — Standard Test Method for Loss on Heating of Oil and Asphaltic Compounds

ASTM D36 — Standard Test Method for Water and Sediment in Crude Oil by the Centrifuge Method (Laboratory Procedure)

ASTM D70 — Standard Test Method for Density of Semi Solid Bituminous Materials (Pycnometer Method)

ASTM D140 — Standard Practice for Sampling Asphalt Materials

ASTM D244 — Standard Test Methods and Practices for Emulsified Asphalts

ASTM D979/D979M — Standard Practice for Sampling Bituminous Paving Mixtures

ASTM D2041 — Standard Test Method for Theoretical Maximum Specific Gravity and Density of Bituminous Paving Mixtures

ASTM D2171 — Standard Test Method for Viscosity of Asphalts by Vacuum Capillary Viscometer

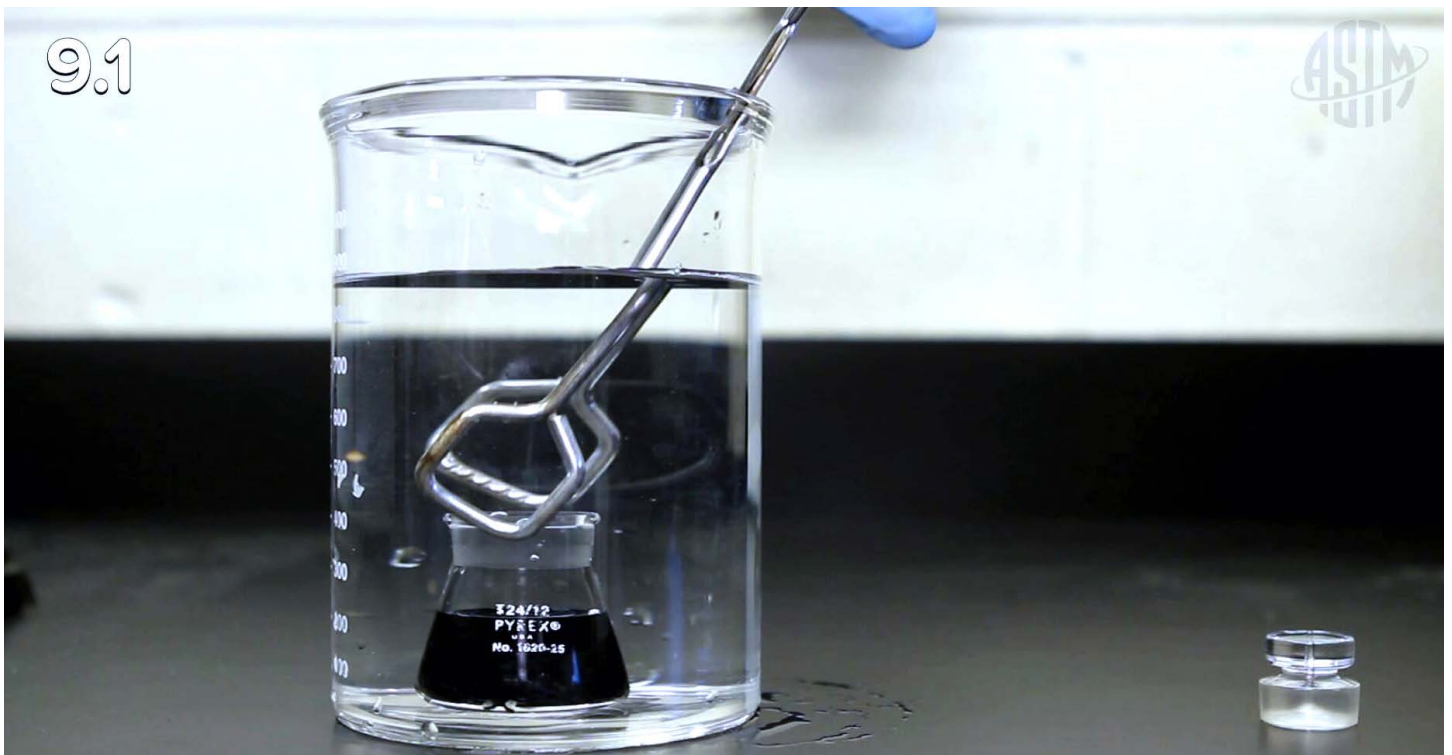
ASTM D2726 — Standard Test Method for Bulk Specific Gravity and Density of Non-Absorptive Compacted Bituminous Mixtures

ASTM D2872 — Standard Test Method for Effect of Heat and Air on a Moving Film of Asphalt (Rolling Thin-Film Oven Test)

ASTM D3203 — Standard Test Method for Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures

ASTM D3549 — Standard Test Method for Thickness or Height of Compacted Asphalt Mixture Specimens

ASTM D3665 — Standard Practice for Random Sampling of Construction Materials)



ASTM D4402 — Standard Test Method for Viscosity Determination of Asphalt at Elevated Temperatures Using a Rotational Viscometer

ASTM D4867 — Standard Test Method for Effect of Moisture on Asphalt Concrete Paving Mixtures

ASTM D5361 — Standard Practice for Sampling Compacted Asphalt Mixtures for Laboratory Testing

ASTM D5444 — Standard Test Method for Mechanical Size Analysis of Extracted Aggregate

ASTM D6752 — Standard Test Method for Bulk Specific Gravity and Density of Compacted Bituminous Mixtures Using Automatic Vacuum Sealing Method

ASTM D6925 — Standard Test Method for Preparation and Determination of the Relative Density of Asphalt Mix Specimens by Means of the Superpave Gyrotory Compactor

ASTM D6933 — Standard Test Method for Oversized Particles in Emulsified Asphalts (Sieve Test)

ASTM D6934 — Standard Test Method for Residue by Evaporation of Emulsified Asphalt

ASTM D6938 — Standard Test Methods for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)

ASTM D6997 — Standard Test Method for Distillation of Emulsified Asphalt

ASTM D6999 — Standard Practice for Miscibility of Emulsified Asphalts

ASTM D7227 — Standard Practice for Rapid Drying of Compacted Asphalt Specimens Using Vacuum Drying Apparatus

ASTM D8225 — Standard Test Method for Determination of Cracking Tolerance Index of Asphalt Mixture Using the Indirect Tensile Cracking Test at Intermediate Temperature

ASTM D7906 — Standard Practice for Recovery of Asphalt from Solution Using Toluene and the Rotary Evaporator

eLearning Program

[Building Enclosure Testing](#)

PERFORMANCE OF BUILDINGS

ASTM E283/E283M — Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Skylights, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen

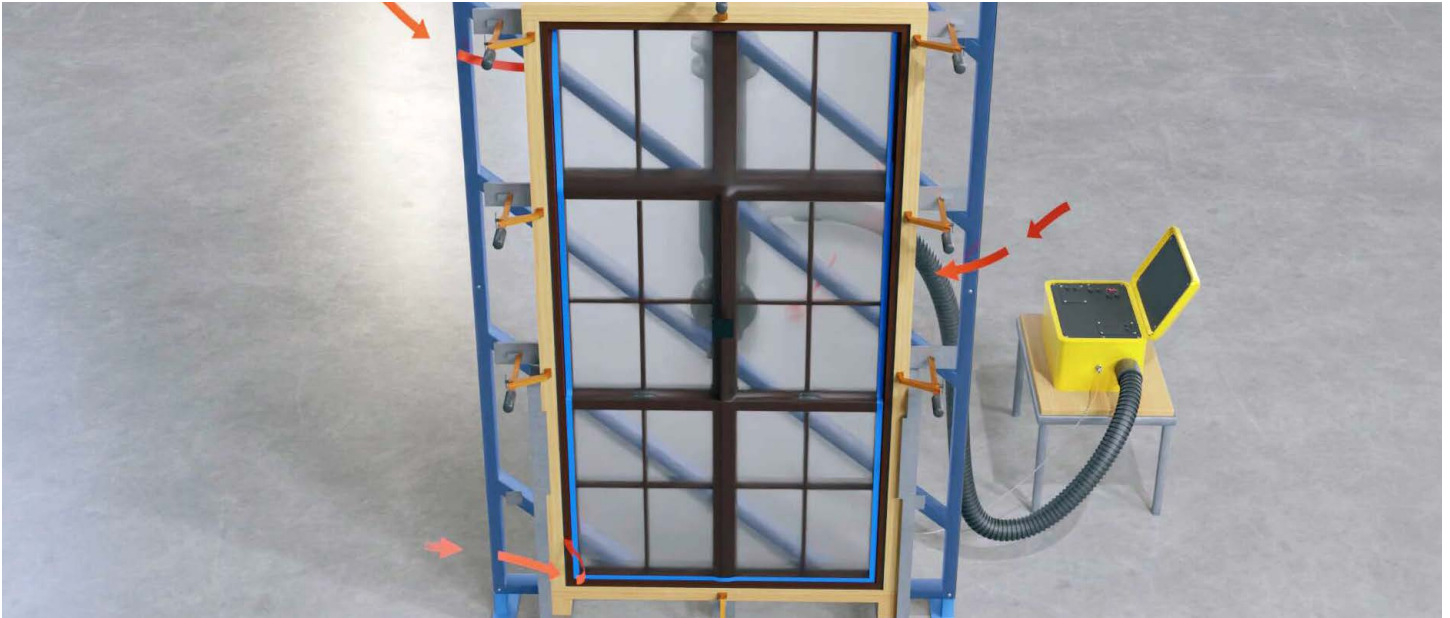
ASTM E331 — Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference

ASTM E783 — Standard Test Method for Field Measurement of Air Leakage Through Installed Exterior Windows and Doors

ASTM E1105 — Standard Test Method for Field Determination of Water Penetration of Installed Exterior Windows, Skylights, Doors, and Curtain Walls, by Uniform or Cyclic Static Air Pressure Difference

NEW → **ASTM E1186** — Standard Practices for Air Leakage Site Detection in Building Envelopes and Air Barrier Systems

ASTM E3158 — Standard Test Method for Measuring the Air Leakage Rate of a Large or Multizone Building -- eLearning Course



eLearning Programs

Concrete Field and Concrete Strength are now available in English, Spanish, and Portuguese

[Aggregate Base](#)

[Aggregate](#)

[Asphalt Aggregate Laboratory Technician](#)

[Cement](#)

[Concrete Field](#)

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[Geotechnical Testing](#)

[Rock Mechanics](#)

[Self-Consolidating Concrete](#)

[Soil Compaction Quality Control](#)

[Soil Laboratory Technician](#)

CONSTRUCTION MATERIALS

ASTM C29/C29M — Standard Test Method for Bulk Density (“Unit Weight”) and Voids in Aggregate

ASTM C31/C31M — Standard Test Practice for Making and Curing Concrete Test Specimens in the Field

ASTM C39/C39M — Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens

ASTM C40/C40M — Standard Test Method for Organic Impurities in Fine Aggregates for Concrete

ASTM C70 — Standard Test Method for Surface Moisture in Fine Aggregate

ASTM C78/C78M — Standard Test Method for Flexural Strength of Concrete (Using Simple Beam with Third Point Loading)

ASTM C88/C88M — Standard Test Method for Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate

ASTM C109/C109M — Standard Test Method for Comprehensive Strength of Hydraulic Cement Mortars

ASTM C117 — Standard Test Method for Materials finer than 75- μm (No. 200) Sieve in Mineral Aggregates by Washing

ASTM C127 — Standard Test Method for Density, Relative Density (Specific Gravity), and Absorption of Coarse Aggregate

ASTM C128 — Standard Test Method for Density, Relative Density (Specific Gravity), and Absorption of Fine Aggregate

ASTM C131/C131M — Standard Test Method for Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine

ASTM C136 — Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates

ASTM C138/C138M — Standard Test Method for Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete

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ASTM C143/C143M — Standard Test Method for Slump of Hydraulic Cement Concrete

ASTM C172/C172M — Standard Practice for Sampling Freshly Mixed Concrete

ASTM C173/C173M — Standard Test Method for Air Content of Freshly Mixed Concrete by the Volumetric Method

ASTM C185 — Standard Test Method for Air Content of Hydraulic Cement Mortar

ASTM C187 — Standard Test Method for Amount of Water Required for Normal Consistency

ASTM C188 — Standard Test Method for Density of Hydraulic Cement

ASTM C191 — Standard Test Methods for Time of Setting Hydraulic Cement by Vicat Needle

ASTM C204 — Standard Test Methods for Fineness of Hydraulic Cement by Air-Permeability

ASTM C215 — Standard Test Method for Fundamental Transverse, Longitudinal, and Torsional Resonant Frequencies of Concrete Specimens

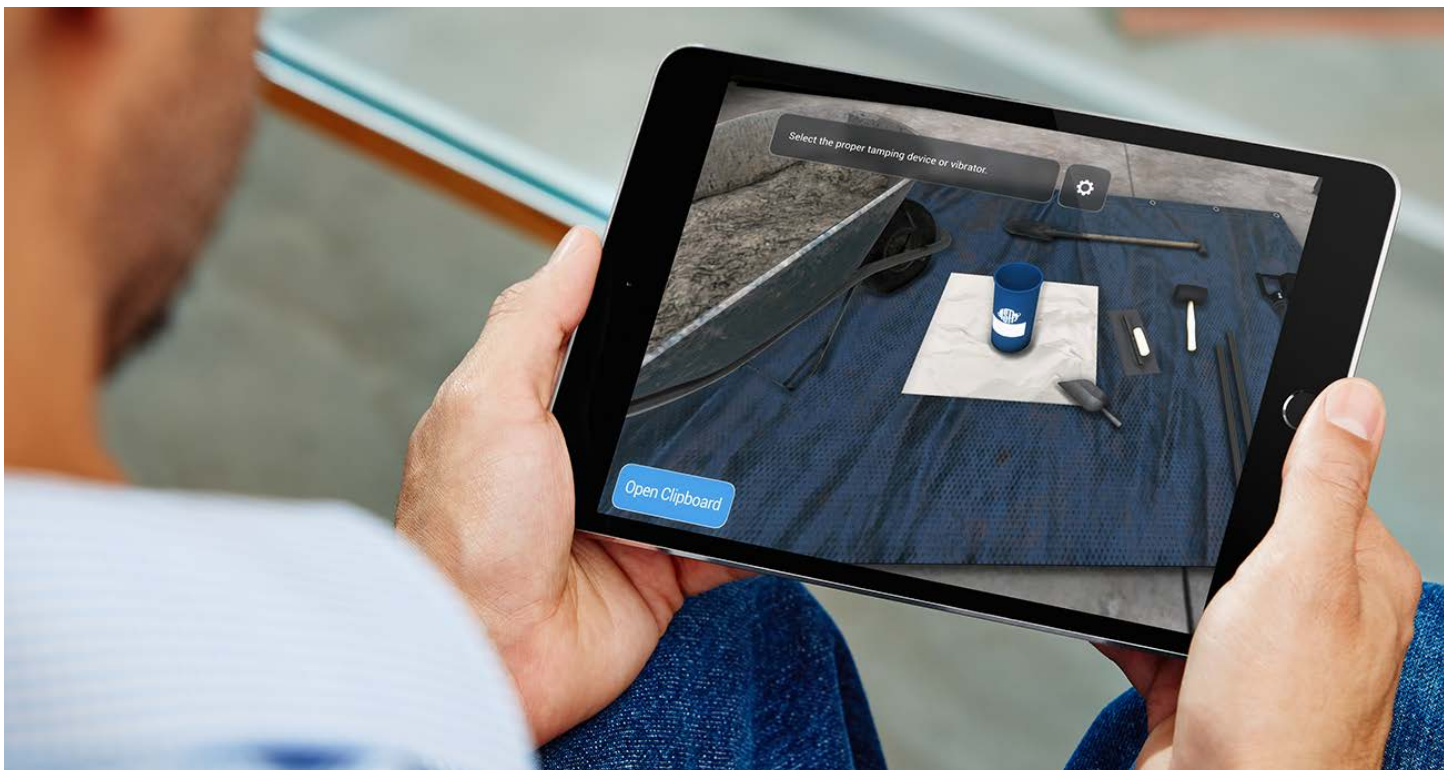
ASTM C231/C231M — Standard Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method

ASTM C266 — Standard Test Method for Time of Setting of Hydraulic-Cement Paste by Gillmore

ASTM C305 — Standard Practice for Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency

ASTM C430 — Standard Test Method for Fineness of Hydraulic Cement by the 45- μ m 325 Sieve

ASTM C451 — Standard Test Method for Early Stiffening of Hydraulic Cement (Paste Method)



ASTM C490 — Standard Practice for Use of Apparatus for the Determination of Length Change of Hardened Cement Paste, Mortar, and Concrete

ASTM C566 — Standard Test Method for Total Evaporable Moisture Content of Aggregate by Drying

ASTM C617 — Standard Practice for Capping Cylindrical Concrete Specimens

ASTM C666 — Standard Test Method for Resistance of Concrete to Rapid Freezing and Thawing

ASTM C702/C702M — Standard Practice for Reducing Samples of Aggregate to Testing Size

ASTM C1064/C1064M — Standard Test Method for Temperature of Freshly Mixed Hydraulic Cement Concrete

ASTM C1202 — Standard Test Method for Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration

ASTM C1231/C1231M — Standard Practice for Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders

ASTM C1260 — Standard Test Method for Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)

ASTM C1293 — Standard Test Method for Determination of Length Change of Concrete Due to Alkali-Silica Reaction

ASTM C1437 — Standard Test Method for Flow of Hydraulic Cement Mortar

ASTM C1567 — Standard Test Method for Determining the Potential Alkali-Silica Reactivity of Combinations of Cementitious Materials and Aggregate (Accelerated Mortar-Bar Method)

ASTM C1611/C1611M — Standard Test Method for Slump Flow of Self-Consolidating Concrete





ASTM C1621/C1621M — Standard Test Method for Passing Ability of Self-Consolidating Concrete by J-Ring

ASTM C1712 — Standard Test Method for Rapid Assessment of Static Segregation Resistance of Self-Consolidating Concrete Using Penetration Test

ASTM C1758/C1758M — Standard Practice for Fabricating Test Specimens with Self-Consolidating Concrete

ASTM D75/D75M — Standard Practice for Sampling Aggregates

ASTM D421 — Standard Practice for Dry Preparation of Soil Samples for Particle-Size Analysis (Withdrawn)

ASTM D422 — Standard Test Method for Particle-Size Analysis (Withdrawn)

ASTM D698 — Standard Test Methods for Laboratory Compaction of Soil Standard Effort

ASTM D1557 — Standard Test Methods for Laboratory Compaction of Soil Modified Effort

NEW → **ASTM D1883** — Standard Test Method for California Bearing Ratio (CBR) of Laboratory-Compacted Soils

ASTM D2166 — Standard Test Method for Unconfined Compressive Strength of Cohesive Soil

ASTM D2216 — Standard Test Methods for Lab Determination of Water Content of Soil

ASTM D2419 — Standard Test Method for Sand Equivalent Value of Soils and Fine Aggregate

ASTM D2435 — Standard Test Methods for One-Dimensional Consolidation Properties of Soils Using Incremental Loading

ASTM D2488 — Standard Practice for Description and Identification of Soils (Visual-Manual Procedures)

ASTM D2850 — Standard Test Method for Unconsolidated-Undrained Triaxial Compression Test on Cohesive Soils

NEW → **ASTM D4186** — Standard Test Method for One-Dimensional Consolidation Properties of Saturated Cohesive Soils Using Controlled-Strain Loading

ASTM D4318 — Standard Test Methods for Liquid Limit, Plastic Limit and Plasticity Index of Soils

ASTM D4543 — Standard Practices for Preparing Rock Core as Cylindrical Test Specimens

ASTM D4767 — Standard Test Method for Consolidated Undrained Triaxial Compression Test for Cohesive Soils

ASTM D4791 — Standard Test Method for Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate

ASTM D5084 — Standard Test Methods for Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter

ASTM D5607 — Standard Test Method for Performing Laboratory Direct Shear Strength Tests of Rock Specimens Under Constant Normal Force

ASTM D5821 — Standard Test Method for Determining the Percentage of Fractured Particles in Coarse Aggregate

ASTM D7012 — Standard Test Methods for Compressive Strength and Elastic Moduli of Intact Rock Core Specimens under Varying States of Stress and Temperatures

ASTM D7181 — Standard Test Method for Consolidated Drained Triaxial Compression Test for Soils

ASTM D7928 — Standard Test Method for Particle-Size Distribution (Gradation) of Fine-Grained Soils Using the Sedimentation (Hydrometer) Analysis

Soil Compaction Quality Control: Laboratory Compaction Tests

Soil Compaction Quality Control: Means, Methods, and Mechanics of Compaction

Soil Compaction Quality Control: Quality Control and the Coordinated Use of Lab and In-Place Tests

Soil Compaction Quality Control: Tests for Determining Density or Unit Weight of Soil In-Place

Soil Compaction Quality Control: Tests for Determining the Water Content of Soils

eLearning Program

[Masonry](#)

MASONRY

ASTM C140 — Standard Test Methods for Sampling and Testing Concrete Masonry Units and Related Units

ASTM C780 — Standard Test Method for Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry

ASTM C1019 — Standard Test Method for Sampling and Testing Grout for Masonry

ASTM C1314 — Standard Test Method for Compressive Strength of Masonry Prisms

ASTM C1552 — Standard Practice for Capping Concrete Masonry Units, Related Units and Masonry Prisms for Compression Testing

Corrosion

eLearning Program

[Corrosion](#)

Cannabis

eLearning Programs

[Cannabis Laboratory Testing](#)

[Quality Management Systems for the Cannabis Industry \(also available in Spanish\)](#)

[Security for the Cannabis Industry](#)

NEW → **ASTM B117** — Standard Practice for Operating Salt Spray (Fog) Apparatus

NEW → **ASTM G85** — Standard Practice for Modified Salt Spray (Fog) Testing

Cannabis Science: Understanding the Role of Water Activity in Safety and Quality

Introduction to Corrective Action Preventive Action, CAPA, for the Cannabis Industry

ASTM D8205 — Standard Guide for Video Surveillance System

ASTM D8217 — Standard Guide for Access Control System

ASTM D8220 — Standard Guide for Conducting Recall/Removal Procedures for Products in the Cannabis Industry

ASTM D8222 — Standard Guide for Establishing a QMS for Consumer Use of Cannabis/Hemp Complaints

ASTM D8250 — Standard Practice for Applying a Hazard Analysis Critical Control Points (HACCP) System for Cannabis Consumable Products

ASTM D8286 — Standard Guide for Processing Cannabis Product Complaints

ASTM D8308 — Standard Practice for Cannabis/Hemp Operation Compliance Audits

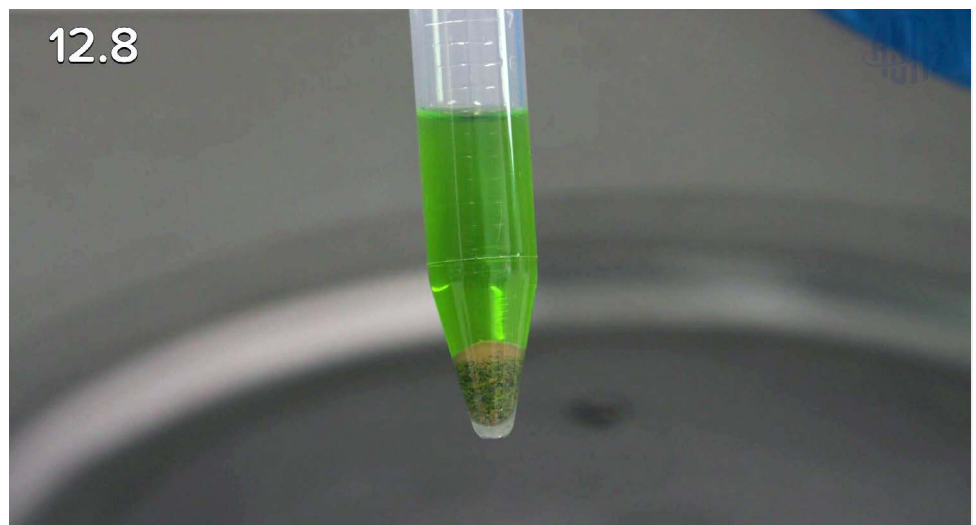
ASTM D8320 — Standard Practice for Implementing an Information Security Program in a Cannabis Operation

ASTM D8375 — Standard Test Method for Determination of Cannabinoid Concentration in Dried Cannabis and Hemp Raw Materials using Liquid Chromatography Tandem Mass Spectrometry (LC-MS/MS)

ASTM D8399 — Standard Test Method for Multi-residue Analysis of Pesticides in Dried Cannabis and Hemp Raw Materials Using Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS)

ASTM D8442 — Standard Test Method for Determination of Cannabinoids in Cannabis Raw Materials and Resin Cannabis Products by Gas Chromatography and Flame Ionization Detection

ASTM D8469 — Standard Test Method for Analysis of Multiple Elements in Cannabis Matrices by Inductively Coupled Plasma Mass Spectrometry (ICP-MS) -- eLearning Course



Emerging Technologies

eLearning Programs

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[Additive Manufacturing Design Program](#)

[Additive Manufacturing Processes Program](#)

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[Additive Manufacturing: Laser Powder Bed Fusion](#)

[Additive Manufacturing Testing Program](#)



AUTONOMY IN AVIATION

- Autonomy Design and Operations in Aviation: Terminology and Requirements Framework – Microlearning
- Developmental Pillars of Increased Autonomy for Aircraft Systems – Microlearning

EXOTECHNOLOGY

- Applications for Exoskeltons Webinar OnDemand
- Exoskeleton and PPE Interface Challenges Roundtable OnDemand

UNMANNED AIRCRAFT SYSTEMS

- How to Use ASTM F3586 Remote ID Means of Compliance for FAA Regulation 14 CFR Part 89

ADDITIVE MANUFACTURING

Additive Manufacturing Safety Certificate

Principles of Additive Manufacturing

Webinars OnDemand

- Additive Manufacturing Data Management: Part 1
- Additive Manufacturing Data Management: Part 2
- Design for Additive Manufacturing: Part 1
- Design for Additive Manufacturing: Part 2
- Determining the Suitability of Parts for AM
- Multi-Material Processing in Additive Manufacturing
- AM Feedstock Part 1: Metal Powder Characterization and Specification
- AM Feedstock Part 2: Developing Strategies for Metal Powder Reuse
- Metallurgical Principles for PBF Processes
- Microstructural Control during Metal Additive Manufacturing
- Understanding Qualification and Certification for Additive Manufacturing, with a Focus on Medica
- What's in a Word? The background and fundamental principles for standard terminology in additive manufacturing
- Additive Manufacturing Processes: Principles of DED
- Additive Manufacturing Processes: Principles of Polymer AM
- Additive Manufacturing Processes: Principles of Binder Jetting
- Sinter-based AM: Principles of Debinding and Sintering
- Wire based DED - Part 1: Processes, Applications, and Systems
- Wire based DED - Part 2: Material Properties and their Enhancements
- AM Processes: Principles of Metal Powder Bed Fusion
- In-situ Monitoring and Control in PBF Process
- Metal AM: Hidden Challenges
- NDT for Additive Manufacturing Parts
- Novel Mechanical Test Methods for Additive Manufactured Materials
- Multi-Scanner PBF-LB/M Processing

Energy

eLearning Programs:

[#2 Diesel Fuel](#)

[#6 Fuel Oil](#)

[Aviation Jet Fuel](#)

[Base Oil](#)

[Cetane](#)

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[Fuel Ethanol](#)

[Motor Gasoline](#)

[Octane Rating](#)

[Reformulated Gasoline](#)

[Ultra-Low Sulfur Diesel](#)

- Metal PBF-LB Build Orientation and Supports Considerations
- Design for AM: Understanding Value
- Overview of Cold Spray as a Manufacturing Process

ASTM D56 — Standard Test Method for Flash Point by Tag Closed Cup Tester

ASTM D86 — Standard Test Method for Distillation of Petroleum Products at Atmospheric Pressure

ASTM D92 — Standard Test Method for Flash and Fire Points by Cleveland Open Cup Tester

ASTM D93 — Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester

ASTM D95 — Standard Test Method for Water in Petroleum Products and Bituminous Materials

ASTM D97 — Standard Test Method for Pour Point of Petroleum Products

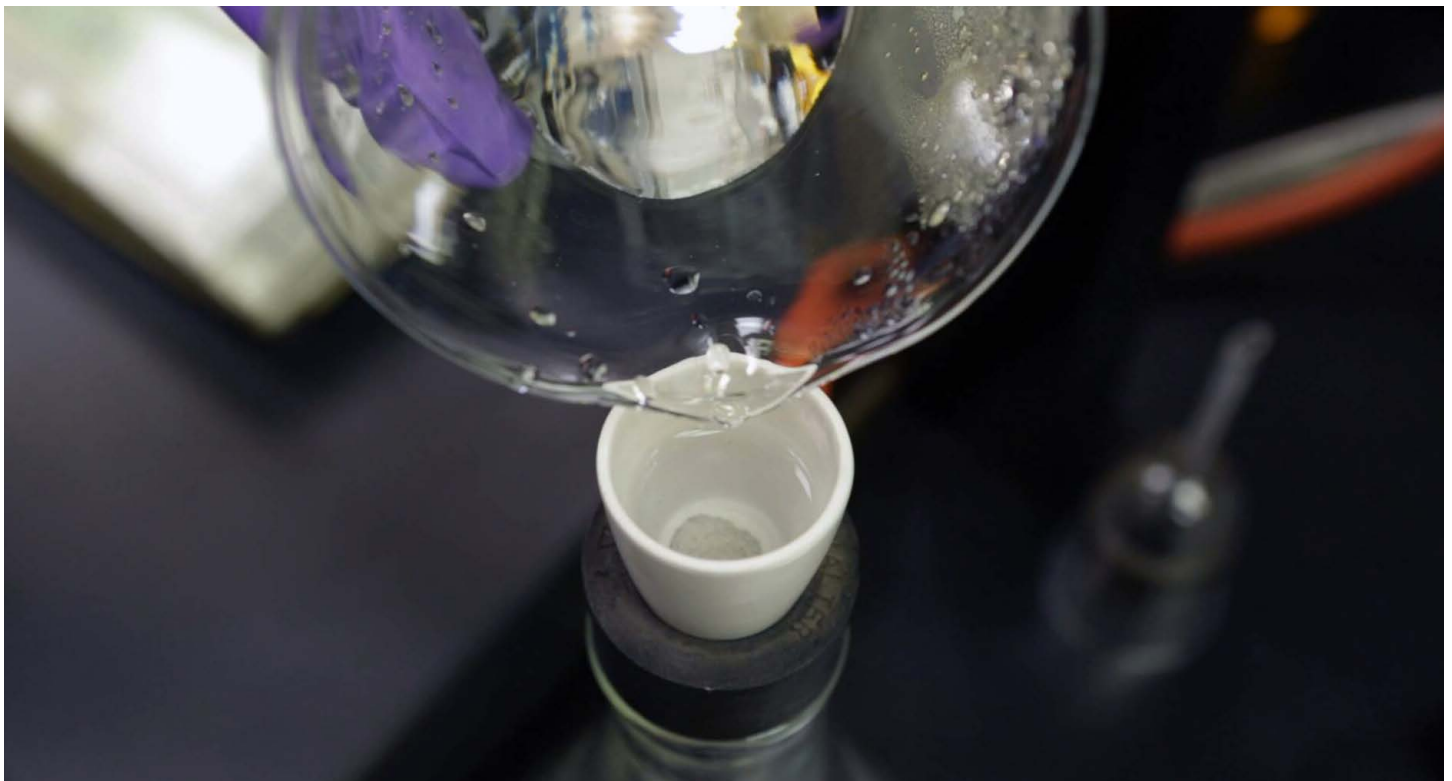
ASTM D129 — Standard Test Method for Sulfur in Petroleum Products (General High Pressure Decomposition Device Method)

ASTM D130 — Standard Test Method for Corrosiveness to Copper from Petroleum Products by Copper Strip Test

ASTM D156 — Standard Test Method for Saybolt Color of Petroleum Products

ASTM D189 — Standard Test Method for Conradson Carbon Residue of Petroleum Products

ASTM D240 — Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter



- ASTM D287** — Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method)
- ASTM D323** — Standard Test Method for Vapor Pressure of Petroleum Products (Reid Method)
- ASTM D381** — Standard Test Method for Gum Content in Fuels by Jet Evaporation
- ASTM D445** — Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids
- ASTM D482** — Standard Test Method for Ash from Petroleum Products
- ASTM D524** — Standard Test Method for Ramsbottom Carbon Residue of Petroleum Products
- ASTM D525** — Standard Test Method for Oxidation Stability of Gasoline (Induction Period Method)
- ASTM D611** — Standard Test Methods for Aniline Point and Mixed Aniline Point of Petroleum Products and Hydrocarbon Solvents
- ASTM D613** — Standard Test Method for Cetane Number of Diesel Fuel Oil
- ASTM D664** — Standard Test Method for Acid Number of Petroleum Products by Potentiometric Titration
- ASTM D874** — Standard Test Method for Sulfated Ash from Lubricating Oils and Additives
- ASTM D974** — Standard Test Method for Acid and Base Number by Color-Indicator Titration
- ASTM D1298** — Standard Test Method for Density, Relative Density, or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method
- ASTM D1319** — Standard Test Method for Hydrocarbons Types in Liquid Petroleum Product by FIA
- ASTM D1322** — Standard Test Method for Smoke Point of Kerosene and Aviation Turbine Fuel
- ASTM D1500** — Standard Test Method for ASTM Color of Petroleum Products (ASTM Color Scale)
- ASTM D1744** — Standard Test Method for Determination of Water in Liquid Petroleum Products by Karl Fischer Reagent
- ASTM D1840** — Standard Test Method for Napthalene Hydrocarbons in Aviation Turbine Fuels by US
- ASTM D2007** — Standard Test Method for Characteristic Groups in Rubber Extender and Processing Oils and Other Petroleum-Derived Oils by the Clay-Gel Absorption Chromatographic Method
- ASTM D2386** — Standard Test Method for Freezing Point of Aviation Fuels
- ASTM D2500** — Standard Test Method for Cloud Point of Petroleum Products
- ASTM D2622** — Standard Test Method for Sulfur in Petroleum Products by Wavelength Dispersive X-ray Fluorescence Spectrometry
- ASTM D2624** — Standard Test Methods for Electrical Conductivity of Aviation and Distillate Fuels
- NEW → ASTM D2699** — Standard Test Method for Research Octane Number of Spark-Ignition Engine Fuel : Procedure C -- eLearning Course
- NEW → ASTM D2700** — Standard Test Method for Motor Octane Number of Spark-Ignition Engine Fuel

- ASTM D2709** — Standard Test Method for Water and Sediment in Middle Distillate Fuels by Centrifuge
- ASTM D2896** — Standard Test Method for Base Number of Petroleum Products by Potentiometric Perchloric Acid Titration
- ASTM D3227** — Standard Test Method for Sulfur in Gasoline, Kerosene, Aviation Turbine and Distillate Fuels
- ASTM D3230** — Standard Test Method for Salts in Crude Oil
- ASTM D3241** — Standard Test Method for Thermal, Oxidation Stability of Aviation Turbine Fuels
- ASTM D3242** — Standard Test Method for Acidity in Aviation Turbine Fuel
- ASTM D3606** — Standard Test Method for Determination of Benzene and Toluene in Spark Ignition Fuels by Gas Chromatography Procedure B Only
- ASTM D3828** — Standard Test Methods for Flash Point by Small Scale Closed Cup Tester
- ASTM D3948** — Standard Test Method for Determining Water Separation Characteristics of Aviation Turbine
- ASTM D4006** — Standard Test Method Water in Crude Oil by Distillation
- ASTM D4052** — Standard Test Method for Density, Relative Density, and API Gravity of Liquids by Digital Density Meter
- ASTM D4294** — Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy Dispersive X-ray Fluorescence Spectrometry
- ASTM D4308** — Standard Test Method for Determination of Electrical Conductivity of Liquid Hydrocarbon by Precision Meter
- ASTM D4377** — Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy



ASTM D4530 — Standard Test Method for Determination of Carbon Residue (Micro Method)

ASTM D4629 — Standard Test Method for Trace Nitrogen in Liquid Hydrocarbons by Syringe/Inlet Oxidative Combustion and Chemiluminescence Detection

ASTM D4684 — Standard Test Method for Determination of Yield Stress and Apparent Viscosity of Engine Oils at Low Temperature

ASTM D4739 — Standard Test Method for Base Number Determination by Potentiometric Hydrochloric Acid Titration

ASTM D4741 — Standard Test Method for Measuring Viscosity at High Temperature and High Shear Rate by Tapered-Plug Viscometer

ASTM D4807 — Standard Test Method for Sediment in Crude Oil by Membrane Filtration

ASTM D4815 — Standard Test Method for Determination of MTBE, ETBE, TAME, DIPE, Gas Chromatography

ASTM D4860 — Standard Test Method for Free Water and Particulate Contamination in Middle Distillate Fuels (Clear and Bright Numerical Rating)

ASTM D4928 — Standard Test Method for Water in Crude Oils by Coulometric Karl Fisher Titration

ASTM D4952 — Standard Test Method for Qualitative Analysis for Active Sulfur Species in Fuels and Solvents (Doctor Test)

ASTM D5001 — Standard Test Method for Measurement of Lubricity of Aviation Turbine Fuels by the Ball-on-Cylinder Lubricity Evaluator (BOCLE)

ASTM D5002 — Standard Test Method for Density, Relative Density, and API Gravity of Crude Oils by Digital Density Analyzer

NEW → ASTM D5006 — Standard Test Method for Measurement of Fuel System Icing Inhibitors (Ether Type) in Aviation Fuels

ASTM D5185 — Standard Test Method for Multielement Determination of Used and Unused Lubricating Oils and Base Oils by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES)

ASTM D5191 — Standard Test Method for Vapor Pressure of Petroleum Products (Mini Method)

ASTM D5293 — Standard Test Method for Apparent Viscosity of Engine Oils and Base Stocks Between -10 °C and -35 °C Using Cold-Cranking Simulator

ASTM D5453 — Standard Test Method for Total Sulfur in Light Hydrocarbons, Spark Ignition Engine Fuel

ASTM D5481 — Standard Test Method for Measuring Apparent Viscosity at High-Temperature and High-Shear Rate by Multicell Capillary Viscometer

ASTM D5501 — Standard Test Method for Determination of Ethanol and Methanol Content in Fuels Containing Greater than 20% Ethanol by Gas Chromatography

ASTM D5599 — Standard Test Method for Determination of Oxygenates in Gasoline by Gas

ASTM D5708 — Standard Test Methods for Determination of Nickel, Vanadium, and Iron in Crude Oils and Residual Fuels by Inductively Coupled Plasma (ICP) Atomic Emission

ASTM D5762 — Standard Test Method for Nitrogen in Liquid Hydrocarbons, Petroleum and Petroleum Products by Boat-Inlet Chemiluminescence

ASTM D5762 — Standard Test Method for Nitrogen in Liquid Hydrocarbons, Petroleum and Petroleum Products by Boat-Inlet Chemiluminescence

- ASTM D5769** — Standard Test Method for Determination of Benzene, Toluene, and Total Aromatics in Finished Gasolines by Gas Chromatography/Mass Spectrometry
- ASTM D5800** — Standard Test Method for Evaporation Loss of Lubricating Oils by the Noack Method
- ASTM D6079** — Standard Test Method for Evaluating Lubricity of Diesel Fuels by the High Frequency Rig
- ASTM D6304** — Standard Test Method for Determination of Water in Petroleum Products, Lubricating Oils, and Additives by Coulometric Karl Fischer Titration
- ASTM D6371** — Standard Test Method for Cold Filter Plugging Point of Diesel and Heating Fuels
- ASTM D6423** — Standard Test Method for Determination of pHe of Denatured Fuel Ethanol and Ethanol Fuel Blends
- ASTM D6426** — Standard Test Method for Determining Filterability of Middle Distillate Fuel Oils
- ASTM D6468** — Standard Test Method for High Temperature Stability of Middle Distillate Fuels
- ASTM D6560** — Standard Test Method for Determination of Asphaltenes in Crude Petroleum and Products
- ASTM D6584** — Standard Test Method for Determination of Total Monoglyceride, Total Diglyceride
- ASTM D6824** — Standard Test Method for Determining Filterability of Aviation Turbine Fuel
- ASTM D7042** — Standard Test Method for Dynamic Viscosity and Density of Liquids by Stabinger Viscometer (and the Calculation of Kinematic Viscosity)
- ASTM D7153** — Standard Test Method for Freezing Point of Aviation Fuels (Automatic Laser Method)
- ASTM D7224** — Standard Test Method for Determining Water Separation Characteristics of Kerosene-Type Aviation Turbine Fuels Containing Additives by Portable Separometer
- ASTM D7261** — Standard Test Method for Determining Water Separation Characteristics of Diesel Fuels by Portable Separometer
- ASTM D7318** — Standard Test Method for Existent Inorganic Sulfate in Ethanol by Potentiometric Titration
- ASTM D7319** — Standard Test Method for Determination of Existent and Potential Sulfate and Inorganic Chloride in Fuel Ethanol and Butanol by Direct Injection Suppressed Ion Chromatography
- ASTM D7321** — Standard Test Method for Particulate Contamination of Biodiesel B100 Blend Stock Biodiesel Esters and Biodiesel Blends by Laboratory Filtration
- ASTM D7328** — Standard Test Method for Determination of Existent and Potential Inorganic Sulfate and Total Inorganic Chloride in Fuel Ethanol by Ion Chromatography Using Aqueous Sample Injection
- ASTM D7501** — Standard Test Method for Determination of Fuel Filter Blocking Potential of Biodiesel
- ASTM D7688** — Standard Test Method for Evaluating Lubricity of Diesel Fuels by the High Frequency Rig
- ASTM D7795** — Standard Test Method for Acidity in Ethanol and Ethanol Blends by Titration

- NEW →**
- Gasoline and Diesel Fuels Technology
 - Aviation Fuel-Quality Control Procedures: An Overview
 - Flash Point: Apparatus and Auxiliary Equipment
 - Flash Point: Explanation and Terminology
 - Flash Point: Preparation, Verification, and Maintenance of Apparatus
 - Flash Point: Sampling and Test Specimens
 - General Fuel Handling
 - Microbial Contamination Detection
 - Filtration Equipment
 - Water Detection
 - Particulate Detection
 - ASTM D130: Section 10 Microlearning
 - ASTM D86: Section 8 Microlearning
 - ASTM D93: Annex A1 Microlearning
 - ASTM D1319: Section 10 Microlearning
 - ASTM D5191: Section 8 Microlearning
 - Standards Comparison: ASTM D482 | ISO 6245
 - Standard Comparison: ASTM D7688-18 | ISO 12156-1:2018 (Method B)
 - Standard Comparison: ASTM D974-21 | ISO 6618: 1997 | UNE-EN 14104 : 2021
 - Standard Comparison: ASTM D93-20 | ISO 2719:2016
 - Standard Comparison: ASTM D2500-17a | ISO 3015:2019
 - Standard Comparison: ASTM D6079-18 | ISO 12156-1:2018 (Method A)
 - Standard Comparison: ASTM D3828-16a | ISO 3679:2015

eLearning Program

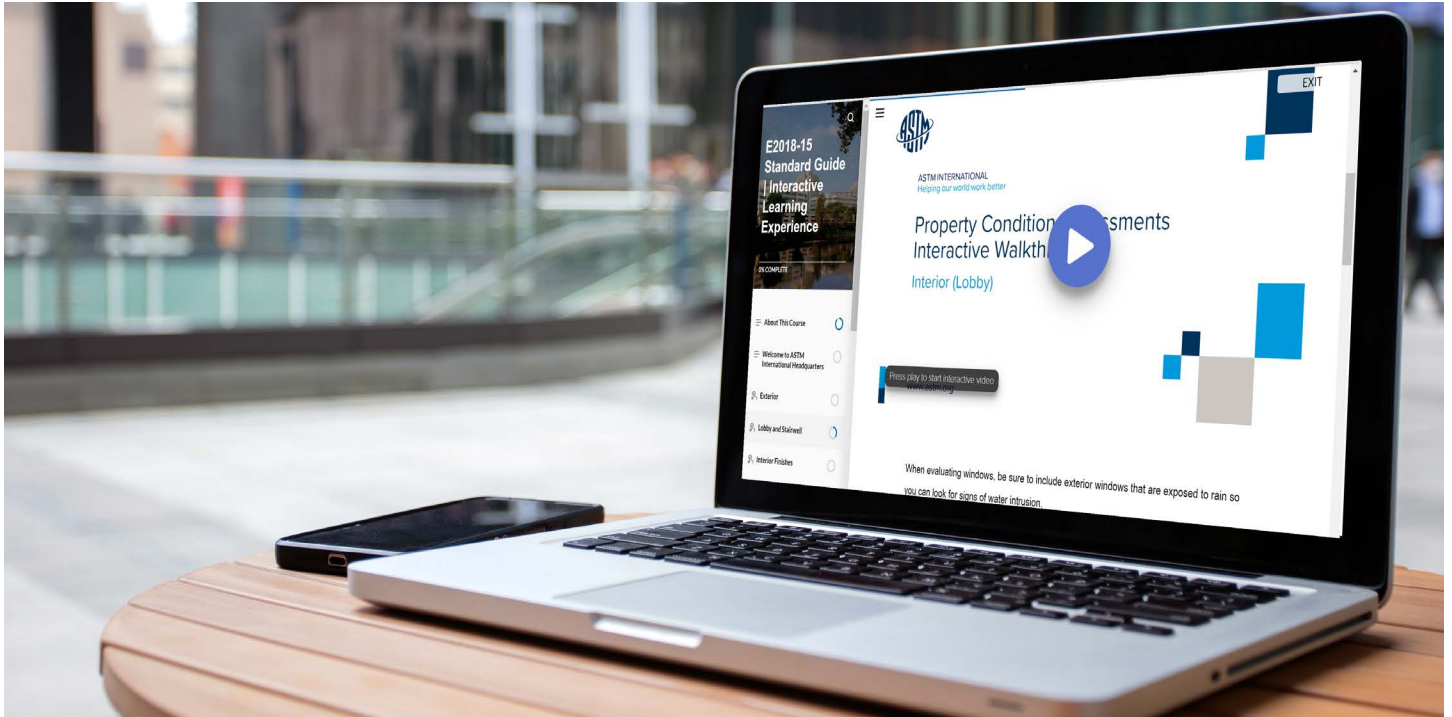
[D4057 eLearning](#)

Available in English, Spanish, and Portuguese

PETROLEUM INSPECTORS

Individual Courses:

- D4057 eLearning Course
 - D4057 Microlearning: Running and All Levels Sampling Microlearning
 - D4057 Microlearning: Sampler Types for Closed and Restricted Sampling Microlearning
 - D4057 Microlearning: Spot Sampling Microlearning
 - D4057 Microlearning: Tank Tap Sampling Microlearning
- NEW →**
- Manual Tank Gauging



eLearning Program

[LPG eLearning](#)

Available in English, Spanish, and Portuguese

Environment

eLearning Program

[Phase I and II Environmental Site Assessment](#)

LIQUEFIED PETROLEUM GASOLINE

Individual Courses:

- D1267 Standard Test Method for Gauge Vapor Pressure of Liquefied Petroleum (LP) Gases
- D2713 Standard Test Method for Dryness of Propane
- D3700 Standard Practice for Obtaining LPG Samples Using a Floating Piston Cylinder
- D6667 Standard Test Method for Determination of Total Volatile Sulfur in Gaseous Hydrocarbons and Liquefied Petroleum Gases by Ultraviolet Fluorescence

ASTM E1527 — Environmental Site Assessments for Commercial Real Estate

ASTM E1903 — Phase II Environmental Site Assessment

ASTM E2018 — Property Condition Assessment

ASTM E2091 — Standard Guide for Use of Activity and Use Limitations, Including Institutional and Engineering Controls

ASTM E2600 — Standard Guide for Vapor Encroachment Screening on Property

ASTM E2790 — Identifying and Complying Continuing Obligations

NEW →

ASTM E3356 — Overview of Standard Guide for Stakeholder Engagement on Environmental Risk Management

ASTM D6008 — Standard Practice for Determining the Environmental Condition of Federal Real Property

- Standard Guide for Vapor Encroachment Screening on Property
- Advanced Environmental Liabilities
- Standard Practice for Comprehensive Building Asbestos Surveys
- Environmental Liabilities

Lab and Field Fundamentals

- ASTM 101: An introduction to ASTM Standards
- Pre-Math Basics
- Math Basics for Asphalts
- Math Basics for Concrete
- Math Basics for Concrete Strength
- Math Basics for Soil
- Test Sieving
- Quality Management 101 Series
- The Art of Perfect Analysis
- Precision and Bias
- Trips, Slips, and Falls Interactive Learning Experience



360 IMMERSIVE

**eLearning Courses offered by ASTM International,
In partnership with 360 Immersive:**

- [My Virtual Safety Trainer for Construction](#)
- [My Virtual Safety Trainer for General Industry](#)
- Bloodborne Pathogens
- Caught in and Caught between Awareness
- Confined Spaces & PRCS: General Awareness
- Confined Spaces & PRCS: Types & Rescue Requirements
- Confined Spaces & PRCS: The Permit
- Earthmoving Equipment
- Electrical Equipment Inspection
- Electrical Hazards • Be Safe Part 1 and Part 2
- Electrocutation Awareness
- Electrical GFCI & AEGCP Awareness
- Emergency Action Plan & Medical Services
- Emergency Planning: Exits and Egress
- Fall Protection Systems Awareness
- Fall Protection Systems Donning
- Fall Protection Systems Inspection
- Fire Extinguisher Inspection
- Fire Extinguisher Use
- Fire Prevention Awareness
- Fire Protection Awareness
- Focus Four: Struck-by Awareness
- Forklift General Safety
- Forklift Key Off Inspection
- Forklift Key On Inspection
- Forklift Operator Awareness Part 1 and Part 2
- Hazard Communication
- Ladder Use
- Ladder Inspection
- Lockout/Tagout

- Machine Guarding
- Occupational Noise: Hearing Conservation
- PPE Awareness
- PPE Body, Hands, Feet
- PPE Eyes, Face, Head
- PPE: Hazardous Environments
- PPE Respiratory Protection
- Scaffolding Awareness
- Trenching Awareness
- Welding and Hot Works Part 1 and Part 2

LAB MANAGER ACADEMY

eLearning Courses offered by ASTM International, in partnership with Lab Manager:

- Lab Management Certificate
- How to Manage Lab Staff
- How to Be a Better Lab Leader
- How to Improve Lab Operations
- How to Improve Lab Management

-
- ASTM Standards for Light Sport Aircraft

Light Sport Aircraft

Bring ASTM's Award-Winning OnDemand Training Content To Your Learning Management System

REAL-TIME ACCESS TO CONTENT UPDATES AND VERSIONS

When ASTM updates a course, you will have immediate access on your platform through the SCORM package provided at set up without any additional effort from your team.

SECURE ACCESS TO ASTM CONTENT

The SCORM package shared with you at set up is designed for your company only. This allows you to place it securely on your platform knowing only your organization has access to that file.

BACKUP TRACKING AND REPORTING

Our deployment system provides backup reporting data including how many users access the training course and scores and exam responses.

Metals and Mechanical Testing

eLearning Programs

[Mechanical Testing and Definitions](#)



ASTM A370 — Standard Test Methods and Definitions for Mechanical Testing of Steel Products

ASTM E10 — Brinell Hardness of Metallic Materials

ASTM E18 — Standard Test Method for Rockwell Hardness of Metallic Materials

ASTM E23 — Notched Bar Impact Testing of Metallic Materials

ASTM E384 — Standard Test Method for Knoop and Vickers Hardness of Materials

Failure Analysis of Metals

Principles of Metallurgy

ASTM E92 — Standard Test Methods for Vickers Hardness and Knoop Hardness of Metallic Materials

ASM INTERNATIONAL

eLearning courses offered by ASTM International, in partnership with ASM

- Corrosion Testing and Monitoring
- Materials Characterization and the Selection Process
- Mechanical Properties and Their Measurement
- Types of Corrosion
- Metallographic Techniques, Part 1
- Metallographic Techniques, Part 2
- Basics of Welding



AMERICAN WELDING SOCIETY

eLearning courses offered by ASTM International, in partnership with AWS:

- API 1104 Code Clinic
- Destructive Testing
- Economics of Welding
- Fabrication Math I
- Fabrication Math II
- Safety in Welding
- The Science of Nondestructive Testing
- Understanding Welding Symbols
- Welding Fundamentals II
- Welding Sales Representative
- WPS/PQR Explained



CASTI

- ASTM Standards: Carbon & Alloy Steel
- ASTM Standards: Making Wrought Products
- ASTM Standards: ASTM Steel Standards Structure

Nondestructive Testing

- ASTM E165/E165M Standard Practice for Liquid Penetrant Testing for General Industry
- ASTM E1417 Standard Practice for Liquid Penetrant Testing

Oxygen

- Fire Hazards In Oxygen Systems
- Oxygen Systems Operations and Maintenance

Plastics

NEW →

ASTM D1709 — Standard Test Methods for Impact Resistance of Plastic Film by the Free-Falling Dart

- The Basics of Plastics Testing
- Classifications and Definitions of Plastics Testing
- General Guidelines for Plastics Testing
- Measuring Mechanical Properties of Plastics
- Responses to Flame Exposure



Statistics

- Statistics in ASTM Standard Test Method Development, Application, and Quality Assurance
 - Understanding Test Method Precision, Bias, ILS Design, Statistical Quality Control Charts, and Work Process
-

Capacitación en español

CONSTRUCCIÓN

- [Capacitación en pruebas de campo del hormigón: Serie de aprendizaje electrónico](#)
 - [Capacitación en pruebas de resistencia del hormigón: Serie de aprendizaje electrónico](#)
-

CORROSIÓN

- ASTM Procedimiento estandar ASTM B117 – Curso de aprendizaje electrónico (ES)
-

PETRÓLEO

- [La Colección de eLearning ASTM para Diésel](#)
 - [Muestreo de petróleo por ASTM D4057 Programa completado](#)
-

CANNABIS

- [Sistemas de gestión de calidad para programa de aprendizaje electrónico de la industria](#)
-

Treinamento em Português

CONSTRUÇÃO

- [Treinamento de ensaio de campo de concreto – Série de eLearning](#)
 - [Treinamento de ensaio de resistência de concreto – Série de eLearning](#)
-

PETRÓLEO

- [Gás liquefeito de petróleo Programa concluído](#)
- [Amostragem de petróleo pela ASTM D4057 Programa concluído](#)



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ASTM INTERNATIONAL HEADQUARTERS

100 BARR HARBOR DRIVE
P.O. BOX C700
WEST CONSHOHOCKEN, PA 19428-2959
USA

Tel +1.610.832.9500

Web go.astm.org