



ADVANCING STANDARDS
TRANSFORMING MARKETS

2025

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Helping Our World Work Better®



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Building and Construction

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](#)

[Concrete Laboratory](#)

[Concrete Strength](#)

[Geotechnical Testing](#)

[Rock Mechanics](#)

[Self-Consolidating Concrete](#)

[Soil Compaction Quality Control](#)

[Soil Laboratory Technician](#)

AGGREGATES

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

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 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

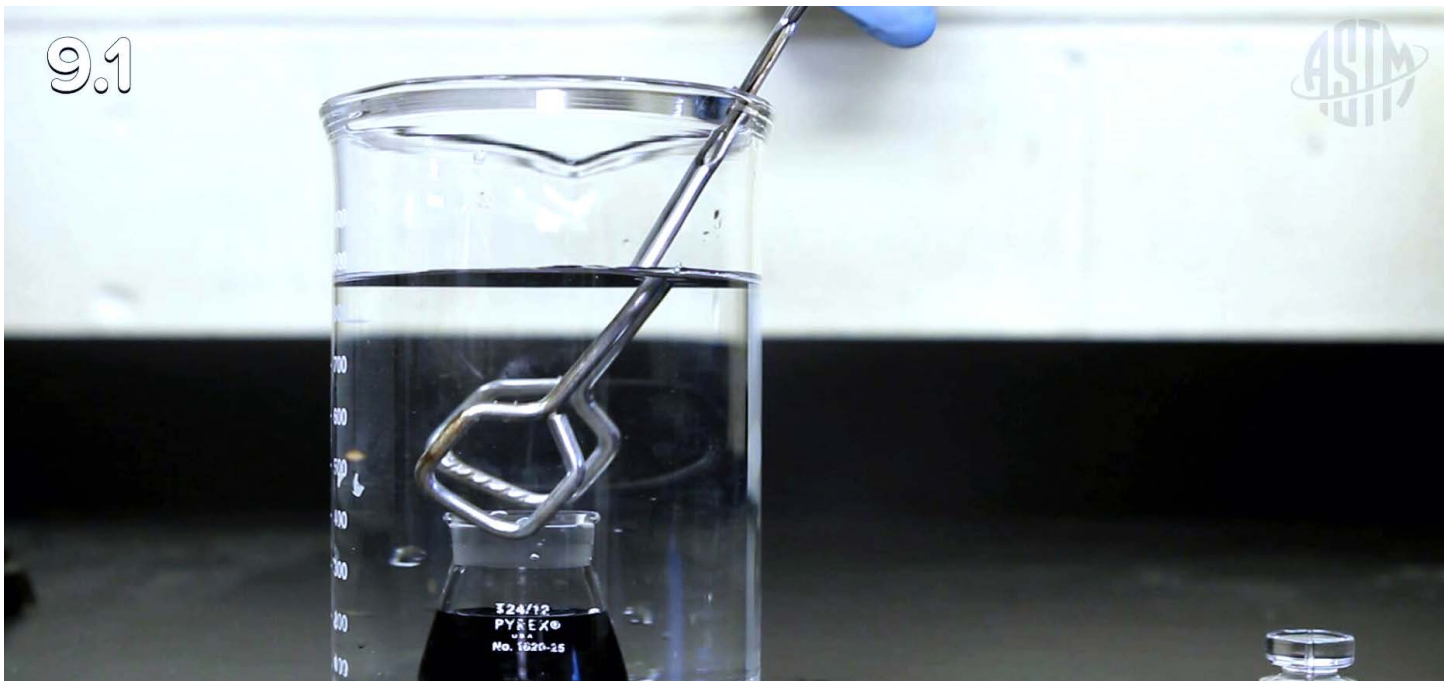
ASTM C131/C131M — Standard Test Method for Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine

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

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

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

ASTM D75/D75M — Standard Practice for Sampling Aggregates



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 Gyratory 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

CEMENT AND CONCRETE

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

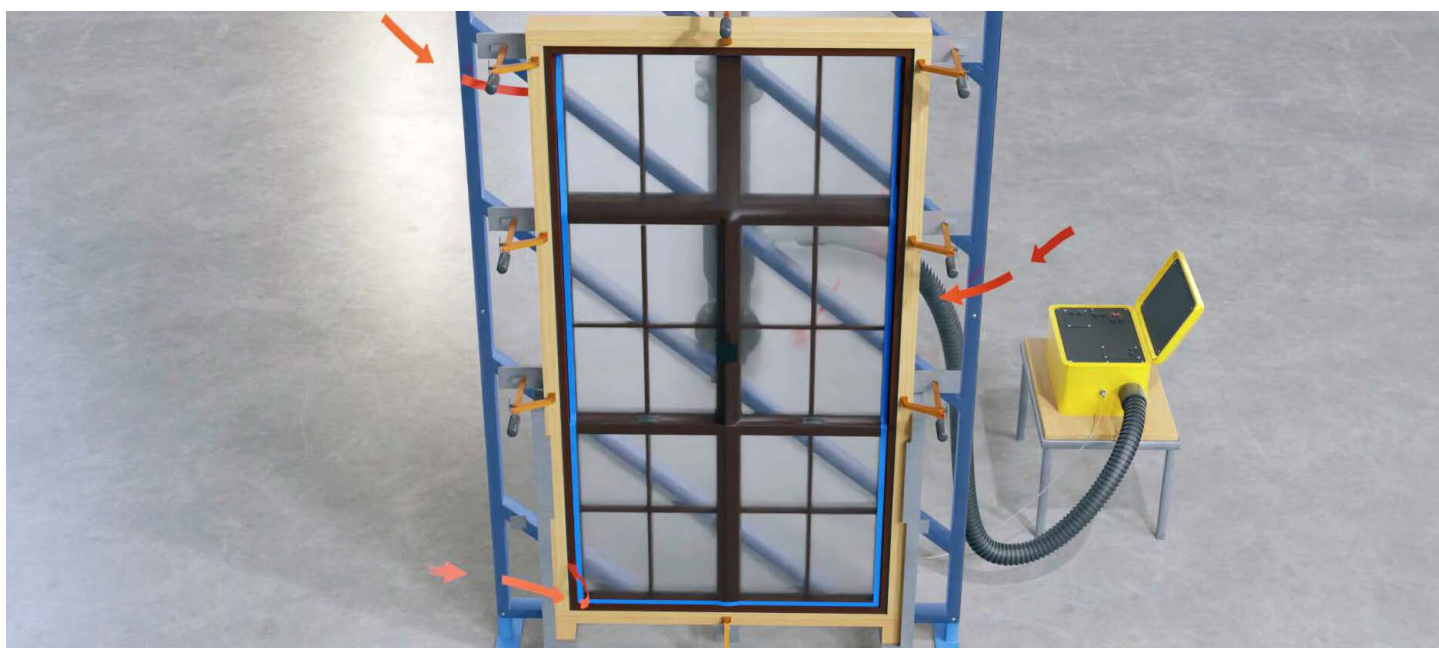
ASTM C39/C39M — Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens

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

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

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

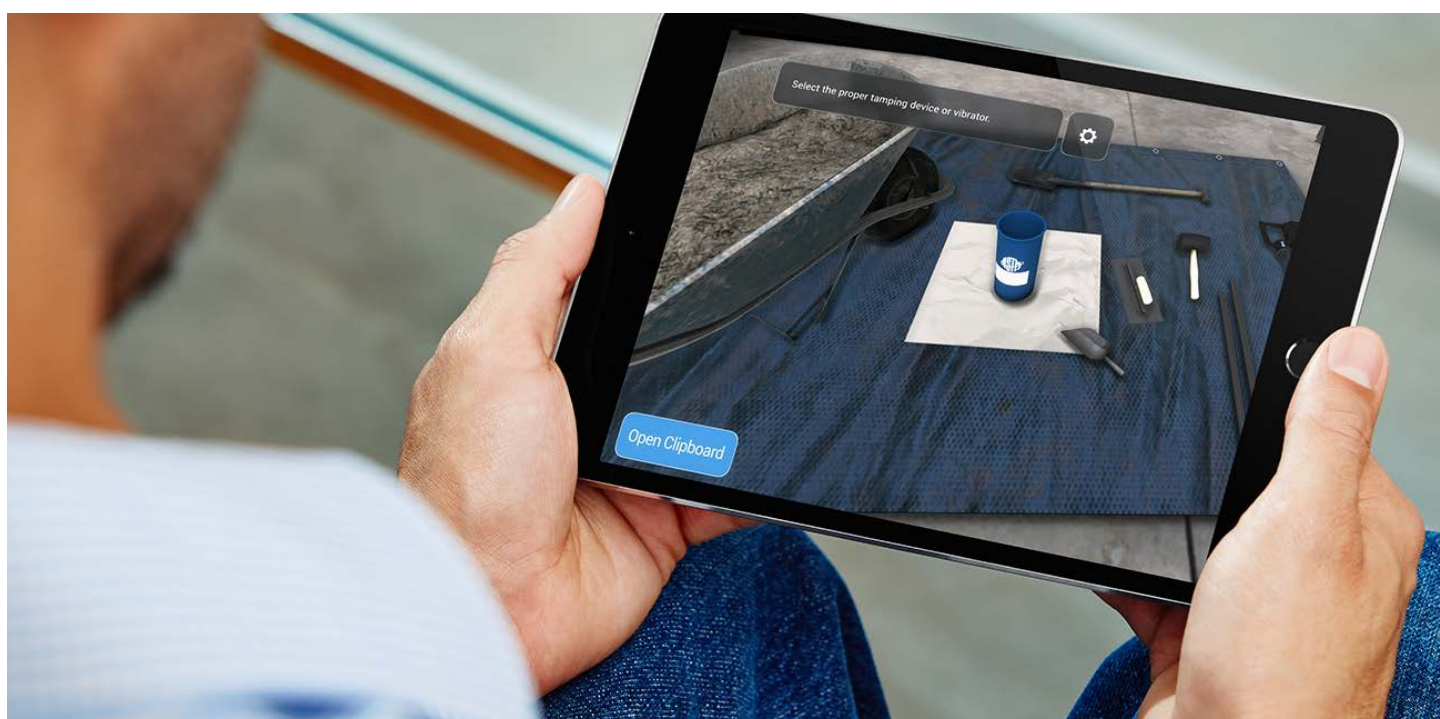
ASTM C266 — Standard Test Method for Time of Setting of Hydraulic-Cement Paste by Gillmore

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 C617 — Standard Practice for Capping Cylindrical Concrete Specimens

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

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





eLearning Program

[Masonry](#)

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

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

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

NEW →

ASTM E605 — Standard Test Methods for Thickness and Density of Sprayed Fire-Resistive Material (SFRM) Applied to Structural Members -- eLearning Course

NEW →

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

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

SOIL, ROCK, AND GEOTECHNICAL

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

Corrosion

eLearning Program
[Corrosion](#)

NEW →

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

NEW →

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

Cannabis

eLearning Programs

[Cannabis Laboratory Testing](#)

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

[Security for the Cannabis Industry](#)

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

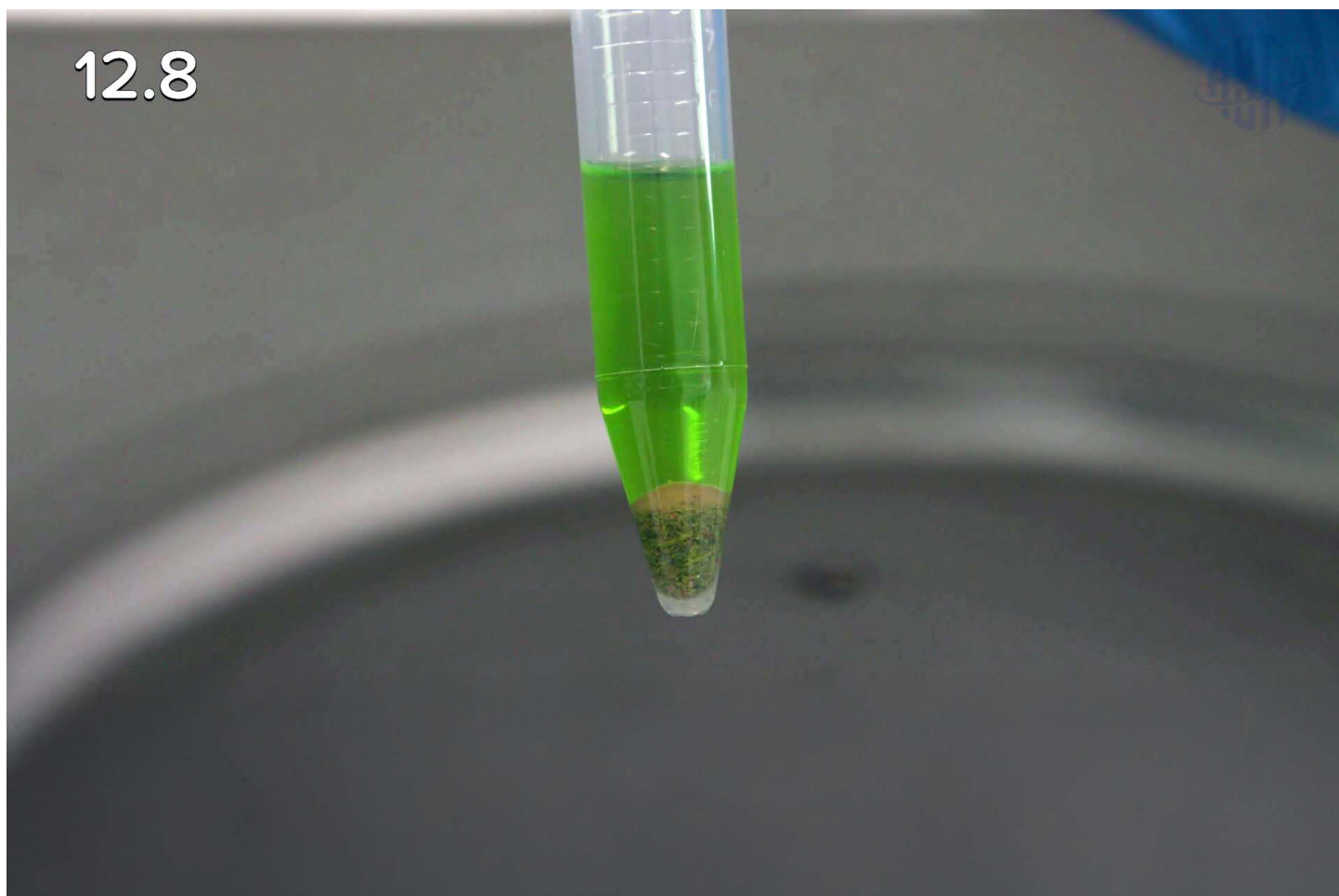
ASTM D8375 — Standard Test Method for Determination of Cannabinoid Concentration in Dried Cannabis and Hemp Raw Materials using Liquid Chromatography Tandem Mass Spectrometry (LC-MS/MS)

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

12.8



Emerging Technologies

NEW →

NEW →

eLearning Programs

[Additive Manufacturing Data Management Program](#)

[Additive Manufacturing Design Program](#)

[Additive Manufacturing Processes Program](#)

[Additive Manufacturing with Metals Program](#)

[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 Exoskeletons Webinar OnDemand
- Exoskeleton and PPE Interface Challenges Roundtable OnDemand

ASTM F3443 — Standard Practice for Load Handling When Using an Exoskeleton

ASTM F3474 — Standard Practice for Establishing Exoskeleton Functional Ergonomic Parameters and Test Metrics

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

Energy

eLearning Programs:

[#2 Diesel Fuel](#)

[#6 Fuel Oil](#)

[Aviation Jet Fuel](#)

[Base Oil](#)

[Cetane](#)

[Biodiesel](#)

[Crude Oil](#)

[Engine Oil Lubricants](#)

[Fuel Ethanol](#)

[Motor Gasoline](#)

[Octane Rating](#)

[Reformulated Gasoline](#)

[Ultra-Low Sulfur Diesel](#)

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

NEW →

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

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

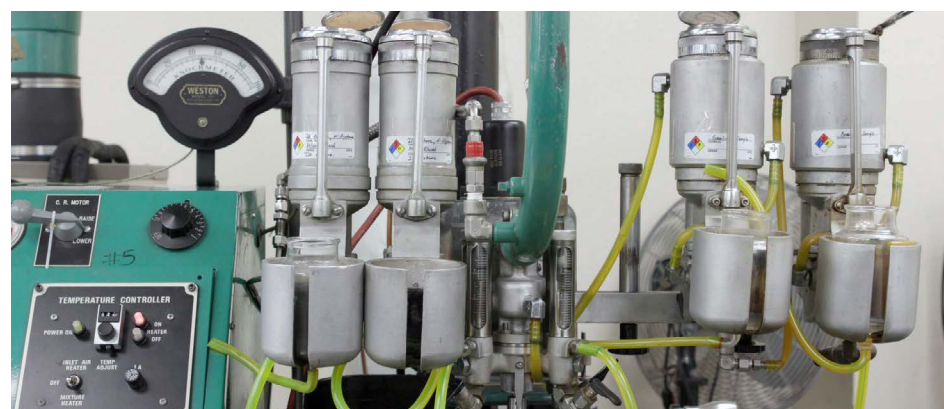
ASTM D4006 — Standard Test Method Water in Crude Oil by Distillation

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

NEW →

ASTM D6045 — Standard Test Method for Color of Petroleum Products by the Automatic Tristimulus 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 pH_e 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

NEW →

ASTM D7039 — Standard Test Method for Sulfur in Gasoline, Diesel Fuel, Jet Fuel, Kerosene, Biodiesel, Biodiesel Blends, and Gasoline-Ethanol Blends by Monochromatic Wavelength Dispersive X-ray Fluorescence Spectrometry

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

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- Gasoline and Diesel Fuels Technology
- Aviation Fuel-Quality Control Procedures: An Overview
- Flash Point: Apparatus and Auxiliary Equipment
- Flash Point: Explanation and Terminology
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- Flash Point: Sampling and Test Specimens
- General Fuel Handling
- Microbial Contamination Detection
- Filtration Equipment
- Water Detection
- Particulate Detection

eLearning Program [D4057 eLearning](#)

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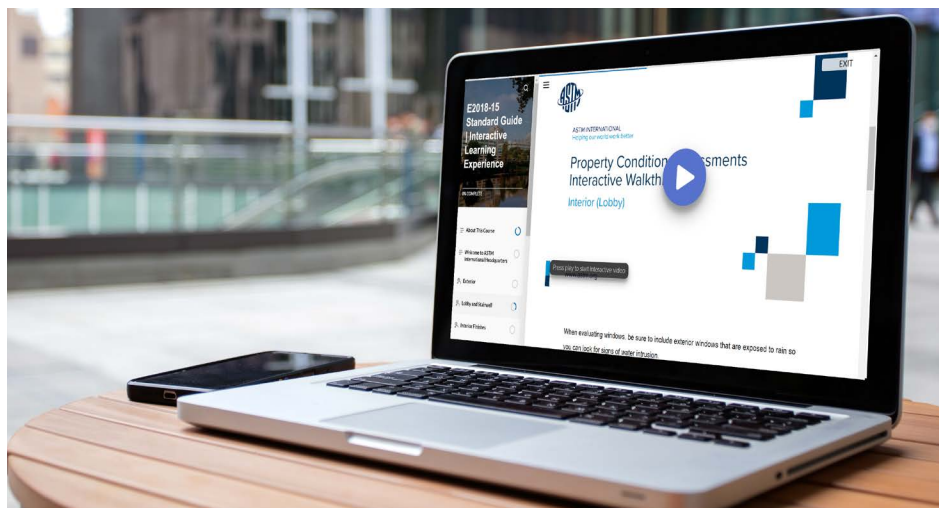
NEW →

NEW →

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
- Manual Tank Gauging
- Temperature Determination



eLearning Program

[LPG eLearning](#)

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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

Environment

eLearning Program

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

[PFAS Analytical Methods eLearning Program](#)

NEW →

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

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

eLearning Program

[PFAST Analytical Methods eLearning Program](#)

An Introduction to ASTM E3302 Standard Guide for PFAS Analytical Methods Selection (eLearning Course)

ASTM D8421 — Standard Test Method for Determination of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Matrices by Co-solvation followed by Liquid Chromatography Tandem Mass Spectrometry (LC/MS/MS)

ASTM D8535 — Standard Test Method for Determination of Per- and Polyfluoroalkyl Substances (PFAS) in Soil/Biosolid Matrices by Solvent Extraction, Filtering, and Followed by Liquid Chromatography Tandem Mass Spectrometry (LC/MS/MS)

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](#)

LAB MANAGER ACADEMY

**eLearning Courses offered by ASTM International,
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- Lab Management Certificate
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- ASTM Standards for Light Sport Aircraft

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

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

Failure Analysis of Metals

Principles of Metallurgy

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:

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- 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

NEW →

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

ASTM E1417 — Standard Practice for Liquid Penetrant Testing

NEW →

ASTM E709 — Standard Guide for Magnetic Particle Testing

ASTM E3024/E3024M — Standard Practice for Magnetic Particle Testing for General Industry

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

NEW →

ASTM D638 — Standard Test Method for Tensile Properties of Plastics

NEW →

ASTM D1505 — Standard Test Method for Density of Plastics by the Density-Gradient Technique

NEW →

ASTM D792 — Standard Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement | Test Method A

NEW →

ASTM D1238 — Standard Test Method for Melt Flow Rates of Thermoplastics by Extrusion Plastometer

Rubber

ASTM D3187 — Standard Test Methods for Rubber—Evaluation of NBR (Acrylonitrile-Butadiene Rubber) – eLearning Course

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

Textiles

- ASTM D3775** — Standard Test Method for End (Warp) and Pick (Filling) Count of Woven Fabrics
- ASTM D3776/D3776M** — Standard Test Methods for Mass Per Unit Area (Weight) of Fabric
- ASTM D5034** — Standard Test Method for Breaking Strength and Elongation of Textile Fabrics (Grab Test)

Water

- ASTM D8421** — Standard Test Method for Determination of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Matrices by Co-solvation followed by Liquid Chromatography Tandem Mass Spectrometry (LC/MS/MS) - eLearning
- ASTM D8535** — Standard Test Method for Determination of Per- and Polyfluoroalkyl Substances (PFAS) in Soil/Biosolid Matrices by Solvent Extraction, Filtering, and Followed by Liquid Chromatography Tandem Mass Spectrometry (LC/MS/MS) - eLearning

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

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- [La Colección de eLearning ASTM para Diésel](#)
- [Muestreo de petróleo por ASTM D4057 Programa completado](#)
- [La coleccion de capacitacion para combustible de turbina de aviacion \(jet A\)](#)

CANNABIS

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

Treinamento em Português

PETRÓLEO

- [A colecao de treinamento para biodiesel](#)
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