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eLearning

BUILDING AND CONSTRUCTION

Asphalt

eLearning Program: Asphalt eLearning
- Emulsified Asphalt
- Asphalt Binder
- Asphalt Mixture
- Performance Grade Bitumen (NEW)

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 D244 — Standard Test Methods and Practices for Emulsified Asphalts

ASTM D1140 — Standard Test Methods for Determining the Amount of Material Finer than 75-μm (No. 200) Sieve in Soils by Washing

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

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

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 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 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 Method 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
Performance of Buildings

eLearning Program

- Building Enclosure Testing

ASTM E283/E283M (NEW) — 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 (NEW) — Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference

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

ASTM E1105 (NEW) — 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

Construction Materials

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

eLearning Program: Construction Materials eLearning

- Aggregate Base
- Aggregate
- Asphalt Aggregate Laboratory Technician
- Cement
- Concrete Field
- Concrete Laboratory
- Concrete Strength
- Rock Mechanics
- Self-Consolidating Concrete
- Soil Compaction Quality Control
- Soil Laboratory Technician (NEW)

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

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CANNABIS

eLearning Programs:
- Cannabis Laboratory Testing (NEW)
- 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 D8222 — Standard Guide for Establishing a QMS for Consumer Use of Cannabis/Hemp Complaints
ASTM D8250 (NEW) — Standard Practice for Applying a HACCP System for Cannabis Consumable Products
ASTM D8286 (NEW) — Standard Test Method 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 (NEW) — 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 (NEW) — 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 D8469 (NEW) — Standard Test Method for Analysis of Multiple Elements in Cannabis Matrices by Inductively Coupled Plasma Mass Spectrometry (ICP-MS) -- eLearning Course

Masonry

eLearning Program: Masonry eLearning

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 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

ASTM D4791 — Standard Test Method for Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate
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 D7928 — Standard Test Method for Particle-Size Distribution (Gradation) of Fine-Grained Soils Using the Sedimentation (Hydrometer) Analysis

ASTM D8205 — Standard Guide for Video Surveillance System
ASTM D8217 — Standard Guide for Access Control System
ASTM D8222 — Standard Guide for Establishing a QMS for Consumer Use of Cannabis/Hemp Complaints
ASTM D8250 (NEW) — Standard Practice for Applying a Hazard Analysis Critical Control Points (HACCP) System for Cannabis Consumable Products
ASTM D8286 (NEW) — Standard Test Method for Processing Cannabis Product Complaints
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- Additive Manufacturing Processes Program
- Additive Manufacturing with Metals Program
- Additive Manufacturing: Laser Powder Bed Fusion
- Additive Manufacturing Testing Program

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Understanding Qualification and Certification for Additive Manufacturing, with a Focus on Medical - Webinar OnDemand

What’s in a Word? The background and fundamental principles for standard terminology in additive manufacturing - Webinar OnDemand
Additive Manufacturing Processes: Principles of DED - Webinar OnDemand
Additive Manufacturing Processes: Principles of Polymer AM - Webinar OnDemand
Additive Manufacturing Processes: Principles of Binder Jetting - Webinar OnDemand
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ENVIRONMENT

ASTM E1527 — Environmental Site Assessments for Commercial Real Estate
ASTM E1903 — Phase II Environmental Site Assessment
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Standard Guide for Vapor Encroachment Screening on Property
- Standard Practice for Comprehensive Building Asbestos Surveys
- Environmental Liabilities Certificate Course
- Phase II Environmental Site Assessment

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LAB AND FIELD FUNDAMENTALS

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- Math Basics for Asphalts
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- Math Basics for Soil
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- Precision and Bias
- Trips, Slips, and Falls Interactive Learning Experience

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- 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 à½ Be Safe Part 1 and Part 2
- Electrocuton 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

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LIGHT SPORT AIRCRAFT

- ASTM Standards for Light Sport Aircraft

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METALS AND MECHANICAL TESTING

- 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
  - Failure Analysis of Metals
  - Principles of Metallurgy
ASM International

eLearning courses offered by ASTM International, in partnership with ASM:
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- 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

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

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

OXYGEN

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

PETROLEUM

PETROLEUM

eLearning Programs:
- #2 Diesel Fuel
- #6 Fuel Oil
- Aviation Jet Fuel
- Base Oil
- Cetane
- Biodiesel
- Crude Oil
- Engine Oil Lubricants
- Fuel Ethanol
- Motor Gasoline
- 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 D240 (NEW) — Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter


ASTM D323 (NEW) — 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 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 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 D2386 — Standard Test Method for Freezing Point of Aviation Fuels
ASTM D2500 — Standard Test Method for Cloud Point of Petroleum Products
ASTM D2624 — Standard Test Methods for Electrical Conductivity of Aviation and Distillate Fuels
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 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 D4006 — Standard Test Method Water in Crude Oil by Distillation
ASTM D4308 — Standard Test Method for Determination of Electrical Conductivity of Liquid Hydrocarbon by Precision Meter
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 D4952 (NEW) — 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 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 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 |
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| 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 |
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| ASTM D93–20 | Standard Test Method for Flash Point: Sampling and Test Specimens |
eLearning

D4057 PETROLEUM SAMPLING
Available in English, Spanish, and Portuguese

eLearning Programs:
- D4057 eLearning

Individual Courses:
- 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

eLearning

LIQUEFIED PETROLEUM GASOLINE
Available in English, Spanish, and Portuguese

eLearning Programs:
- LPG eLearning

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

eLearning

PLASTICS

- 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

- Understanding Test Method Precision, Bias, ILS Design, Statistical Quality Control Charts, and Work Process

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ASTM INTERNATIONAL
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ASTM International
100 Barr Harbor Drive
P.O. Box C700
West Conshohocken, PA
19428-2959
USA
tel +1.610.832.9500
fax +1.610.832.9555
service@astm.org
www.astm.org

For more information, contact ASTM Sales
sales@astm.org  |  tel +1.877.909.ASTM