

ISHM 2026 CLASS SCHEDULE V: 5.1

Class Level		Presentation Class Session																
Fundamental = F		Tuesday, May 12th				Wednesday, May 13th				Thursday, May 14th								
Period	LEVEL	1.1	1.2	1.3	1.4	2.1	2.2	2.3	2.4	2.5	2.6	3.1	3.2	3.3	LEVEL			
Room #		11:10 AM to 12:00 PM	1:20 PM to 2:10 PM	2:20 PM to 3:10 PM	4:10 PM to 5:00 PM	8:00 AM to 8:50 AM	9:00 AM to 9:50 AM	10:50 AM to 11:40 AM	1:20 PM to 2:10 PM	2:20 PM to 3:10 PM	4:10 PM to 5:00 PM	8:00 AM to 8:50 AM	9:00 AM to 9:50 AM	10:50 AM to 11:40 AM	LEVEL			
Classroom Lectures	103	41102 Witnessing Orifice Meter Verification / Calibration	85005 Water Vapor Effects on Natural Gas Quality and Natural Gas Measurement	82003 Viscosity and its Application in Liquid Hydrocarbon Measurement	41301 Unveiling the Hidden Potential in Your Calibration Data	52117 Utilizing Fidelity Plots for Online Chromatographs	51102 Techniques of Gas Spot Sampling	41103 Verification / Calibration of Devices Used in Liquid Measurement	83004 LNG Measurement by Static and Dynamic Methodologies Panel (Hour 1 of 2)	93005 LNG Measurement by Static and Dynamic Methodologies Panel (Hour 2 of 2)	42311 Understanding Liquid Meter Proving and Proving Reports	16304 Effects of Atmospheric Pressure on Gas Measurement	84001 Understanding How to Apply GPA 2145 to Determine Gas to Liquid and Liquid to Gas Equivalents	13304 Flare Measurement Using Advanced Ultrasonic Technology				
	104	27101 Design, Operation and Maintenance of LACT Units	113001 Update on API, AGA, GPA and ASTM Standards - Measurement Activities (Hour 1 of 2)	113002 Update on API, AGA, GPA and ASTM Standards - Measurement Activities (Hour 2 of 2)	84003 Uncertainty Considerations of Tank Static Measurement System	31301 Testing, Maintenance and Operation of Electronic Flow Computers for the Gas Industry	51203 Uncertainties within Centrifuge Methods and Mitigations	16302 Thermometry in Gas Measurement	23201 Ultrasonic Meters and Measurement Accuracy in Leak Detection	74005 Setting up Effective System Balances	93003 Transmitting Gas Streaming and Pipeline Monitoring through Digitalization: Process Cameras and Real-Time Visual Data for Industrial Operations	17203 Best Practices for the Design of Gas Metering Systems for Custody Transfer	42308 The Uncertainty of a Waterdraw Calibration vs. Gravimetric Calibration on Small Volume Provers	33305 RF (Radio Frequency) Fundamentals of IoT				
	105	60003 Selection, Sizing and Operation of Control Valves for Gases and Liquids	12102 Orifice Meters - Operation and Maintenance	34200 Smart Transmitter Selection, Calibration and Installation	111001 The Role of BLM in Oil and Gas Measurement	74003 The Measurement Data Handling Process-Now and in the Future	31303 The Evolution of Data Collection for Gas Measurement	42310 The "Not So Small" Small Volume Prover	111002 API MPMS Chapter 22.2 Testing Protocol for Differential Pressure Flow Measurement Devices	16303 ESG and GHG Measurement and Impact of Federal and State Air Regulations on Measurement of Emissions and Flaring	51101 Techniques of Gas Composite Sampling	43105 Statistical Control of Meter Factors - A Simplified Approach	51303 Sampling Challenges Associated With Unconventional Gas Sources	34307 Simplifying Real-time and Historical (EFM) Data Collection for the Oil & Gas Industry				
	106	33101 Spread Spectrum Radio Technology for Gas Measurement	34101 Basic Electronics for the Field Technician	52302 Sampling and Conditioning of Natural Gas Containing Entrained Liquids	16201 Measurement and Regulation Operation of a LDC	51302 Sampling and Analysis for RNG	43104 Sample System Field Certification Data Analysis and Troubleshooting	28101 Measurement Methods for Liquid Storage Tanks	35007 Solar Panel Design for Reliable Measurement in Remote Locations	43107 Using Control Charts to Predict Failures of Measurement Devices	51301 Refined Product Sampling Systems	52122 Reducing the Uncertainty of Hydrocarbon Dewpoint Calculations Using a C ₂ Analysis	51501 Sample Conditioning & Contaminant Removal for Water Vapor Determination	32301 Advanced Application of Liquid Flow Computers				
	201	71007 Measurement Economics	24201 Mass Measurement of Natural Gas Liquid Mixtures	12103 Gas Meter Selection	42108 Pycnometer Installation, Operation and Calibration	42105 Proving Liquid Ultrasonic Meters	42106 Proving Liquid Meters with Microprocessor Based Pulse Outputs	74004 Program for Training a Gas Measurement Technician	42103 Proving Coriolis Flow Meters Panel (Hour 1 of 2)	42104 Proving Coriolis Flow Meters Panel (Hour 2 of 2)	42306 Preparing a Prover for Waterdraw Calibration	112001 Overview of GPA 2172/API 14.5 Revision	51502 Certification and Performance Testing of Automatic Samplers	73010 Data Validation - Requirements of an EGM Editor				
	202	16101 Orifice Meter Tube Fabrication Shop Inspection Program	80002 Over Pressure Protection Methods	24301 Operational Experience with Liquid Coriolis Meters	34201 Transient Lightning Protection for Electronic Measurement Devices	42303 Operation and Problems Associated with Prover Detector Switches	52111 Fundamentals of Gas Chromatography	42304 Operational Experience with Small Volume Provers	93001 Small Scale LNG Measurement	113003 Review & Discussion of BLM Orders 3173, 3174, & 3175 (Hour 1 of 2)	113004 Review & Discussion of BLM Orders 3173, 3174, & 3175 (Hour 2 of 2)	52301 On-line Water Measurement Devices in Liquid Service	32101 On-line Flow Computers for Liquid Custody Transfer	130003 Understanding Hazardous Area Classifications				
	203	23101 Ultrasonic Meters for Liquid Measurement	82006 Understanding the Volume Correction Factor Used in Measurement Systems	53009 DOT Requirements for the Transportation of Sample Containers	29102 New Technologies in S&W Measurement	33300 Ethernet for SCADA Systems	28201 Measurement Accuracy and Sources of Error in Tank Gauging	33301 SCADA Systems	130002 Multiphase Flow Measurement	52204 Moisture Measurement Using Laser Spectroscopy	43102 Methods for Certifying Measurement Equipment	No Class	34303 Manufactured Meter Pulses - An Explanation	17205 Measurement Station Inspection Documentation Program and Guide				
	204	31101 Real-Time Electronic Gas Measurement	71004 Measurement System Auditing Hour 1 of 2	71005 Measurement System Auditing Hour 2 of 2	74001 Measurement Policies and Procedures - Development and Implementation Considerations	24303 24303 Coriolis Mass Flowmeter Pressure Effect Compensation - When is it needed. How to do it.	28202 Measurement of Petroleum On Board Marine Vessels	73007 Auditing Liquid Measurement	74002 Measurement Management Systems	14101 Mass Meters for Gas Measurement	27104 Discipline of Sizing SVP for All Metering Technologies	27104 Loading of Crude into Rail Tank Cars	28301 Liquid Tank Level - Interface Measurement	42314 Lies, Damned Lies, and Statistics of Flow Meter Linearization				
	208A	11101 Fundamentals of Gas Measurement I	11103 Fundamentals of Gas Measurement II	11105 Fundamentals of Gas Measurement III	12101 Orifice Fittings and Meter Tubes	11102 Fundamentals of Gas Measurement I	11104 Fundamentals of Gas Measurement II	11106 Fundamentals of Gas Measurement III	74010 Measurement Data Analytics in the Age of Machine Learning	74008 Measurement Analyst Training for a Liquid System	74007 Measurement Analyst Training for a Gas System	71002 Measurement Accounting Overview	73009 Material Loss Control in Refineries and Petrochemical Plants	42107 Master Meter Prover Certifications per API MPMS 4.9.3				
	208B	13007 Interface Detection in Liquid Pipelines	73003 Troubleshooting Liquid Pipeline Losses and Gains (Hour 1 of 2)	73004 Troubleshooting Liquid Pipeline Losses and Gains (Hour 2 of 2)	140010 Mass Measurement by Differential Pressure	28201 Marine Crude Oil Terminal Measurement Systems	42102 Liquid Meter Proving Techniques	52303 An Optical Hydrocarbon Analyzer for On-Line Hydrocarbon Gas Speciation and Measurement	27102 Liquid Measurement Station Design	42302 Liquid Flow Provers	28301 Leveraging Mag Meter Diagnostics to Understand Flow, Process, and Performance	130009 Leak Detection on Petroleum Pipelines	74012 Artificial Intelligence - Data Capture and Back-Office Measurement Applications	14009 Installation Effects on Flow Measurement				
	209A	73008 Investigating LAUF	113005 Introduction to Industry Standards	15102 Fundamentals of Low Pressure Gas Rotary Metering	24302 Advanced Diagnostic Measurements and Verification with Coriolis Flow Meters	21102 Fundamentals of Liquid Measurement I - Physical Properties (Repeat Class)	21104 Fundamentals of Liquid Measurement II - Static (Repeat Class)	21206 Fundamentals of Liquid Measurement III - Dynamic (Repeat Class)	33302 Basic Applications for Flow Computers and Telemetry Systems	82005 Equipment and Techniques used in Real Time Component Volume Calculations for Natural Gas Liquid Measurement	41101 Calibration of Liquid Provers	42201 In-Situ (On-Site) Gas Meter Proving	42305 Improving Flow Measurements with Improved Calibration & Data Handling Procedures	42312 Improvement of Historic Proving Practice through API MPMS Chapter 13 Statistical Methods				
	209B	21101 Fundamentals of Liquid Measurement I - Physical Properties	21103 Fundamentals of Liquid Measurement II - Static	21105 Fundamentals of Liquid Measurement III - Dynamic	53002 Impact of Hydrogen Blending on Natural Gas Analysis	84000 Hydrocarbon Dew Point Effects on Gas Flow Measurement	42102 Data Averaging	42101 Identifying and Eliminating Effects of Induced Signals on Measurement System Electronics	12302 Guidelines for Pipeline Fill, Pack, and Determination Methodology	13301 Orifice Meter Diagnostic Systems	83002 Gas Ultrasonic Diagnostics	93002 Large Scale LNG Measurement	43103 Uncertainty Based Transmitter Verification	No Class				
	301A	24101 Mass Meters for Liquid Measurement	130005 New Ideas in Measurement (Hour 1 of 3)	130006 New Ideas in Measurement (Hour 2 of 3)	130008 New Ideas in Measurement (Hour 3 of 3)	130001 Flow Conditioning for Fluid Flow Measurement	12300 Flow Conditioner for Orifice Meters	41201 Flow Calibrating Ultrasonic Gas Meters	112006 Overview of Changes to API 2350 Tank Overfill Protection	27103 Automated Truck Loading Systems	25101 Fundamentals of Liquid Turbine Meters	34305 PID Control Implementation in Electronic Flow Computers	34306 PID Pressure Control Implementation and Tuning in Electronic Flow Computers	16307 Flare Measurement Practices				
	301B	53011 Odorization in Natural Gas	81001 Estimating Measurement Uncertainty for Gas Flow Meters	17202 Effects of Abnormal Conditions on Accuracy of Orifice Measurement	28302 Evaporation Loss Measurement from Storage Tanks	74009 Engineering Ethics	83001 Energy Measurement using Flow Computers and Chromatography	83002 Energy Measurement Using Ultrasonic Meters and Gas Chromatography	42307 Theory and Application of Pulse Interpolation to Prover Systems	84002 Effects of Petroleum Properties on Pipeline Measurement	74005 Establishing a Development Program for Hydrocarbon Measurement Staff	42109 Dynamic Measurement and Proving in LNG Systems	13303 Contaminant Accumulation Effect on Gas Ultrasonic Flow Meters	42309 Roles and Responsibilities of Witnessing a Prover Calibration				
	301C	13101 Fundamentals of Ultrasonic Gas Measurement	22101 Displacement Meters for Liquid Measurement	53005 Determination of Water Vapor Content in Natural Gas	52116 Effects of C ₆ + vs C ₉ + Analysis on Gas Measurement	53010 Determination of Trace Oxygen in Natural Gas	73001 Measurement Scene Investigations	53001 Design Considerations for Analyzer Enclosure Systems	53006 Determination of Hydrocarbon Dew Point in Natural Gas (Hour 1 of 2)	53007 Determination of Hydrocarbon Dew Point in Natural Gas (Hour 2 of 2)	52201 Determination of H ₂ S and Total Sulfur in Natural Gas	85006 Introduction to Uncertainty in Measurement	53003 Reducing Measurement Uncertainty in Process Gas Quality Measurements	42301 Guide to Troubleshooting Problems with Liquid Meters and Provers				
	301D	82001 Fluid Volume Calculations	71001 Financial Models of Gas Systems	15101 Fundamentals of Gas Turbine Meters	33201 Communication Systems for Gas Measurement Data	51103 Fundamentals of Sampling Natural Gas for BTU Determination	17201 Coping with Changing Flow Requirements at Existing Meter Stations	94002 Conventional Measurement in Unconventional Plays	51201 Crude Oil Sampling for Custody Transfer Panel (Hour 1 of 2)	51202 Crude Oil Sampling for Custody Transfer Panel (Hour 2 of 2)	34304 OPC Fundamentals	13302 Condition-Based Monitoring of Natural Gas Ultrasonic Measurement Facilities	17204 Installation and Operation Errors in Gas Measurement	73013 Determination of Lost and Unaccounted for Gas				
	302A	82004 Offshore Liquid FPSO Measurement Systems	74011 Cyber Security	81003 Compressibility of Natural Gas	53004 Crude Quality - What is Involved and Why It's Important	52114 Chromatographic Analysis of Natural Gas Liquids	52115 Chromatograph Maintenance and Troubleshooting	75003 Chromatograph Applications and Problems from the User's Standpoint	71003 Challenges in Allocation Measurement Panel (Hour 1 of 2)	75004 Challenges in Allocation Measurement Panel (Hour 2 of 2)	60001 Causes and Cures of Regulator Instability	91001 Carbon Dioxide Measurement Experience	14301 Calibration Transferability for Coriolis Mass Flow Meters	25202 Application of Turbine Meters in Liquid Measurement				
	302B	17101 Basics of High Pressure Measuring and Regulating Station Design	75001 Allocation Measurement 101 - Fundamentals of Allocations	52113 BTU Determination of Natural Gas Using a Portable Chromatograph	82002 Calculation of Liquid Petroleum Quantities	52112 BTU Analysis Using a Gas Chromatograph	16301 Wet Gas Measurement	12301 Best practices for gas measurement with manifold, stabilizers, and tubing installations.	71003 Benefits around Timely Analysis of Chromatogram Data	33303 SCADA and Field Data Capture in the Cloud	33304 Production and Productivity Optimization Through Wireless Sensing	73011 Auditing Gas Laboratories	16306 Production Equipment Effects on Gas Measurement	81002 Estimating Measurement Uncertainty for Gas Flow Meters (Repeat Class)				
	302C	51204 Field and Laboratory Testing of Sediment and Water in Crude Oil	23102 Application in Liquid Measurement Using Clamp-On Ultrasonic Technology	84001 Sampling and Analysis for RNG	31201 Application of Flow Computers for Gas Measurement and Control	73005 Auditing Electronic Gas Measurement per API Chapter 21.1	75002 Allocations 201 - Principles of Allocations	25102 Helical Turbine Meters for Liquid Measurement	28301 Crude Oil Gathering - Gauging Testing and Truck Measurement Alternatives (Hour 1 of 2)	28302 Crude Oil Gathering - Gauging Testing and Truck Measurement Alternatives (Hour 2 of 2)	28303 Crude Oil Blending	16305 Effects and Control of Pulsation in Gas Measurement	27105 Installation and Operation of Denistrometers	73002 Resolving Liquid Measurement Differences				
	Hands-On Class Session																	
			Tuesday, May 12th				Wednesday, May 13th				Thursday, May 14th							
	Period		1.1	1.2	1.3	1.4	2.1	2.2	2.3	2.4	2.5	2.6	3.1	3.2	3.3			
	Room #																	
	205A	970.1 Mustang Sampling - Mustang Sampling-OMA300 Process Analyzer	966.1 Emerson - Rosemount Tank Gauging (Hour 1 of 2)	966.2 Emerson - Rosemount Tank Gauging (Hour 2 of 2)	936.1 Brodie International - Positive Displacement Meters	946.1 Quorum Software - FLOWCAL Measurement Software (Hour 1 of 2)	946.2 Quorum Software - FLOWCAL Measurement Software (Hour 2 of 2)	971.1 ZEGAZ Instruments - ZEGAZ Instruments Automated Chilled-Mirrors	969.1 Mustang Sampling - Mustang Sampling-Pony Box and P-53 Units	984.1 KGM Inc. - Honeywell Mercury Instrument EC350 Electronic Volume Corrector	913.1 TMC - SureShot Orifice Fitting Operation and Maintenance	977.1 Endress+Hauser - Endress + Hauser Coriolis Flowmeter Best Practices	952.1 Quorum Software - PROVEit and PYCti Meter Proving Software	920.1 Micro Motion - Micro Motion Gas Coriolis Meters				
	205B	914.1 KGM Inc. - Dresser Rotary Meters	924.1 Micro Motion - Micro Motion Liquid Coriolis Meters (Hour 1 of 2)	924.2 Micro Motion - Micro Motion Liquid Coriolis Meters (Hour 2 of 2)	938.1 YZ Systems - YZ Odorization	949.1 KGM Inc. - Mooney-Pilot Operated Regulators (Hour 1 of 2)	949.2 KGM Inc. - Mooney-Pilot Operated Regulators (Hour 2 of 2)	937.1 Ametek - Ametek Dead Weight Tester	984.1 Schneider Electric - Realflo Software For Scada/Flow Computers (Hour 1 of 2)	952.1 Schneider Electric - Realflo Software For Scada/Flow Computers (Hour 2 of 2)	975.1 Endress+Hauser - Endress + Hauser Electromagnetic Flowmeter Best Practices	981.1 Aix - Manifold and Stabilizer Installation	923.1 Guidant - Guidant Liquid Positive Displacement Meters	919.1 Siemens - Siemens Clamp-On Ultrasonic Meter				
	206A	948.1 Temposonics - Automatic Tank Gauging Magnetostrictive Technology	931.1 Rosemount Analytical - Gas Chromatograph Configuration (Hour 1 of 2)	931.2 Rosemount Analytical - Gas Chromatograph Configuration (Hour 2 of 2)	947.1 Fisher Controls - Fisher Control High Pressure Regulators	925.1 ABB Totalflow - NGC/PCC 1000 Gas Chromatograph (Hour 1 of 2)	925.2 ABB Totalflow - NGC/PCC 1000 Gas Chromatograph (Hour 2 of 2)	955.1 Schneider Electric - Accutech Wireless Instrumentation	929.1 Thermo Scientific - AutoFLEX Flow Computer (Hour 1 of 2)	927.2 Thermo Scientific - AutoFLEX Flow Computer (Hour 2 of 2)	930.1 Quorum Software - TESTit Meter Calibration Software	941.1 ABB Totalflow - ABB Xseries Flow Computers (Hour 1 of 2)	940.1 ABB Totalflow - ABB Xseries Flow Computers (Hour 2 of 2)	979.1 TMCO - TrueShot TMcare Software Diagnostics				
	206B	976.1 Barracuda Measurement Solutions - ModuleX Liquid Flow Computer	962.1 Guidant - ACCULOAD Family Preset Controller (Hour 1 of 2)	962.2 Guidant - ACCULOAD Family Preset Controller (Hour 2 of 2)	963.1 Guidant - Invalco BS&W Monitor	925.1 Emerson - DeltaV FB3000 RTU Overview & Configuration (Hour 1 of 2)	925.2 Emerson - DeltaV FB3000 RTU Overview & Configuration (Hour 2 of 2)	921.1 Daniel - Daniel Senior Meter Fitting Operation and Maintenance	929.1 Omni - Omni Flow Computers (Hour 1 of 2)	929.2 Omni - Omni Flow Computers (Hour 2 of 2)	941.1 PGI - PGI Interceptor Composite Sampler O&M	963.3 Guidant - Invalco BS&W Monitor (Repeat Class)	940.1 YZ Systems - YZ Natural Gas Sampler O&M	979.1 Emerson - DeltaV FB3000 RTU Custom Display Builder				
	207A	972.1 A+ Corporation - ACES Sample System Design, Installation and Maintenance	942.1 Endress+Hauser - TDLAS H2O Analysis (Hour 1 of 2)	942.2 Endress+Hauser - TDLAS H2O Analysis (Hour 2 of 2)	953.1 Schneider-Electric - Foxboro Production Vortex Meters	931.1 CRT Services - Spirit IT Flow Computers (Hour 1 of 2)	931.2 CRT Services - Spirit IT Flow Computers (Hour 2 of 2)	939.1 Sensia Global - Sensia Crude Oil Meters	916.1 Emerson - Rosemount Ultrasonic Meters	916.2 Emerson - Rosemount Ultrasonic Meters	917.1 Flexim - Flexim Clamp On Ultrasonic Meters	961.1 SICK, Inc. - FLOWSC500 Ultrasonic Meter (Hour 1 of 2)	961.2 SICK, Inc. - FLOWSC500 Ultrasonic Meter (Hour 2 of 2)					
	207B	944.1 Vinson Process - Fisher Control Valves	918.1 SICK, Inc. - SICK Gas Ultrasonic Meters (Hour 1 of 2)	918.2 SICK, Inc. - SICK Gas Ultrasonic Meters (Hour 2 of 2)	964.1 Guidant - Guidant Turbine Meter Diagnostic Tool	983.1 - VEGAFLEX for Interface Level Measurement (Hour 1 of 2)	983.2 VEGA - VEGAFLEX for Interface Level Measurement (Hour 2 of 2)	934.1 Rosemount - Rosemount Smart Transmitters	945.1 Emerson - Emerson FB Series Flow Computers Configurations & Troubleshooting (Hour 1 of 2)	945.2 Emerson - Emerson FB Series Flow Computers Configurations & Troubleshooting (Hour 2 of 2)	943.1 A+ Corporation - Genie Sample Probes and Membrane Separators	956.1 Flow MD - Flow MD Small Volume Provers (Hour 1 of 2)	956.2 Flow MD - Flow MD Small Volume Provers (Hour 2 of 2)	959.1 Flow MD - Witnessing Prover Calibrations (Gravimetric Method)				
	Bathroom A		Gas Fundamentals Track (Requires Additional Registration Fee)															