

LISTING OF EXISTING AND PLANNED MLMS

If Draft Links active, please review			TESTING	
PDF	MP4	PPTX	HTML5	SCORM

	MLM Class	MLM #	Title	PDF	MP4	PPTX	HTML5	SCORM
0	TEMPLATES AND PROCEDURES		Gold = Completed, Pink = Draft					
		MLM-000-A	MLM Template (16x9 PowerPoint File)			PPTX		
1	ACS PRINCIPAL AND PROFESSIONAL ROLES							
		MLM-001-A	Principal Roles in Automation and Control Systems (ACS)	PDF	MP4	PPTX	HTML5	SCORM
		MLM-001-B	Professional Roles In Automation and Control Systems (ACS)	PDF	MP4	PPTX	HTML5	SCORM
		MLM-001-C	Human Resources Role in ACS Cybersecurity	PDF	MP4	PPTX	HTML5	SCORM
		MLM-001-D	ACS Cybersecurity Course Development and Training	PDF	MP4	PPTX	HTML5	SCORM
2	PERA WEBSITE RESOURCES							
		MLM-002-A	Information Structure on PERA Website	PDF	MP4	PPTX	HTML5	SCORM
		MLM-002-B	Useful ACS documents for Control and Automation engineers	PDF	MP4	PPTX	HTML5	SCORM
		MLM-002-C	What is a PERA User Guide?	PDF	MP4	PPTX	HTML5	SCORM
		MLM-002-D	ACS Cybersecurity Learning Resources	PDF	MP4	PPTX	HTML5	SCORM
3	ENTERPRISE LIFECYCLES AND PHASES							
		MLM-003-A	Enterprise Lifecycles and Phases	PDF	MP4	PPTX	HTML5	SCORM
		MLM-003-B	ACS Cybersecurity Lifecycle for Existing Facilities	PDF	MP4	PPTX	HTML5	SCORM
		MLM-003-C	ACS Cybersecurity Lifecycle for New Facilities	PDF	MP4	PPTX	HTML5	SCORM
		MLM-012-A	Cyber Security Use Cases - Introduction	PDF	MP4	PPTX	HTML5	SCORM
		MLM-101-A	The ACS Security Lifecycles	PDF	MP4	PPTX	HTML5	SCORM
4	INDUSTRY CLASSIFICATIONS							
		MLM-004-A	PERA Enterprise Classes	PDF	MP4	PPTX	HTML5	SCORM
		MLM-004-B	Industry Classifications for Cybersecurity (Map to DHS Number)	PDF	MP4	PPTX	HTML5	SCORM
		MLM-015-A	Cybersecurity Factors by Industry	PDF	MP4	PPTX	HTML5	SCORM
5	ENTERPRISE CYBERSECURITY CONCEPTS							
		MLM-005-A	Cybersecurity of Control and Information Systems	PDF	MP4	PPTX	HTML5	SCORM
		MLM-005-B	Cybersecurity Information Subclasses	PDF	MP4	PPTX	HTML5	SCORM
6	CYBERSECURITY LEVELS							
		MLM-006-A	Cyber Security Levels and SPRs	PDF	MP4	PPTX	HTML5	SCORM
		MLM-006-B	Cyber Security Maturity Levels	PDF	MP4	PPTX	HTML5	SCORM
7	ARCHITECTURE MODELS AND CONCEPTS							
		MLM-007-A	Control and Information Architecture Concepts and Terms	PDF	MP4	PPTX	HTML5	SCORM
		MLM-007-B	ACS Architecture Levels (Process Industry)	PDF	MP4	PPTX	HTML5	SCORM
		MLM-007-C	ACS Architecture Levels (Manufacturing)	PDF	MP4	PPTX	HTML5	SCORM
		MLM-007-D	ACS Architecture Levels and Cybersecurity	PDF	MP4	PPTX	HTML5	SCORM
		MLM-007-E	ACS Zones, Conduits and Cybersecurity	PDF	MP4	PPTX	HTML5	SCORM
10	CYBERSECURITY CONCEPTS FOR AUTOMATION AND CONTROL SYSTEMS (ACS)							
		MLM-010-A	Overview of ISA/IEC 62443 and Related Cybersecurity Standards	PDF	MP4	PPTX	HTML5	SCORM
		MLM-010-B	Structure of ISA/IEC 62443 documents	PDF	MP4	PPTX	HTML5	SCORM
		MLM-010-C	Basic Pillars of ISA 62443	PDF	MP4	PPTX	HTML5	SCORM
		MLM-010-J	General IT and OT Security Concepts in ACS	PDF	MP4	PPTX	HTML5	SCORM
		MLM-010-K	Automation and Control System (ACS) Security Concepts	PDF	MP4	PPTX	HTML5	SCORM
		MLM-010-M	Foundational Cybersecurity Requirements	PDF	MP4	PPTX	HTML5	SCORM
		MLM-010-N	Automation Cybersecurity Applications	PDF	MP4	PPTX	HTML5	SCORM
		MLM-010-P	Models (Zones, Conduits, Physical, Logical)	PDF	MP4	PPTX	HTML5	SCORM
13	CYBERSECURITY MASTER PLANNING							
		MLM-013-A	What is an Enterprise Cybersecurity Program	PDF	MP4	PPTX	HTML5	SCORM
		MLM-013-B	Creating a Cyber Security Program	PDF	MP4	PPTX	HTML5	SCORM
		MLM-013-C	Cyber Security Program Implementation	PDF	MP4	PPTX	HTML5	SCORM
		MLM-013-D	Sustaining a Cyber Security Program	PDF	MP4	PPTX	HTML5	SCORM
		MLM-013-E	Reconciling Cybersecurity Standards	PDF	MP4	PPTX	HTML5	SCORM
		MLM-013-F	Comparison of ISA 62443 and ISO 27000 Standards	PDF	MP4	PPTX	HTML5	SCORM
		MLM-025-A	OT vs IT Security Programs	PDF	MP4	PPTX	HTML5	SCORM
		MLM-031-A	Industrial Cybersecurity Practices	PDF	MP4	PPTX	HTML5	SCORM

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14	AUTOMATION DEVICE DEFINITIONS							
		MLM-014-A	What do ACS, IT, and OT Terms Mean?	PDF	MP4	PPTX	HTML5	SCORM
		MLM-014-B	Tradeoffs in Use of ACS, IT, and OT Infrastructure	PDF	MP4	PPTX	HTML5	SCORM
		MLM-014-C	What are IoT and IIoT ?	PDF	MP4	PPTX	HTML5	SCORM
		MLM-014-D	What is Cloud SCADA ?	PDF	MP4	PPTX	HTML5	SCORM
		MLM-014-E	Definition of Automation Devices and Principal Roles	PDF	MP4	PPTX	HTML5	SCORM
15	PIPELINE MASTER PLANNING							
		MLM-015-A	What is a Pipeline Enterprise Master Plan	PDF	MP4	PPTX	HTML5	SCORM
		MLM-013-B	Pipeline Enterprise Master Plan Implementation	PDF	MP4	PPTX	HTML5	SCORM
		MLM-013-C	Sustaining a Pipeline Enterprise Master Plan	PDF	MP4	PPTX	HTML5	SCORM
16	ACS CYBERSECURITY RISK AND MITIGATION							
		MLM-016-A	Typical Industrial Cyber Security Attacks	PDF	MP4	PPTX	HTML5	SCORM
		MLM-016-B	Cybersecurity Risk Definitions and Concepts	PDF	MP4	PPTX	HTML5	SCORM
		MLM-016-F	Level 0 and 1 cyber vulnerabilities	PDF	MP4	PPTX	HTML5	SCORM
		MLM-016-G	Typical Process Plant ACS Cybersecurity Risks	PDF	MP4	PPTX	HTML5	SCORM
		MLM-016-H	Typical Manufacturing Plant Cybersecurity Risks	PDF	MP4	PPTX	HTML5	SCORM
		MLM-019-A	Cyber Security Audits and KPIs	PDF	MP4	PPTX	HTML5	SCORM
		MLM-020-A	Risk Management Including Cybersecurity and Safety Standards	PDF	MP4	PPTX	HTML5	SCORM
18	CYBERSECURITY TRUST MODELS							
		MLM-018-A	Full and Zero Trust in Plants	PDF	MP4	PPTX	HTML5	SCORM
		MLM-018-B	Minimum Trust Model for Cyber Secure ACS	PDF	MP4	PPTX	HTML5	SCORM
		MLM-018-C	Implementing Minimum Trust in ACS	PDF	MP4	PPTX	HTML5	SCORM
		MLM-018-D	What is Zero Trust in Plant IT Systems	PDF	MP4	PPTX	HTML5	SCORM
		MLM-018-E	Implementing Zero and Limited Trust in Plant IT Systems	PDF	MP4	PPTX	HTML5	SCORM
		MLM-018-F	Implementing Minimum Trust in OT Systems	PDF	MP4	PPTX	HTML5	SCORM
20	ACS CYBERSECURITY FOR ENGINEERING PHASE							
		MLM-070-A	Cybersecurity Table-top Exercise for a Power Plant	PDF	MP4	PPTX	HTML5	SCORM
21	yED GRAPHICS							
		MLM-021-A	What is yEd Graphics?	PDF	MP4	PPTX	HTML5	SCORM
		MLM-021-B	How is yEd Used in PERA	PDF	MP4	PPTX	HTML5	SCORM
		MLM-021-C	Advanced yEd Tutorial	PDF	MP4	PPTX	HTML5	SCORM
22	XML WORKFLOW AND SWIMLANE DIAGRAMS							
		MLM-022-A	XML Standards and Their Application in PERA	PDF	MP4	PPTX	HTML5	SCORM
		MLM-022-B	Use of Swim Lane Interfaces between Principal Roles	PDF	MP4	PPTX	HTML5	SCORM
		MLM-022-C	Use of Workflows between Professional Roles	PDF	MP4	PPTX	HTML5	SCORM
24	MLMS AND LEARNING MAPS							
		MLM-024-A	What is a Micro Learning Module (MLM)?	PDF	MP4	PPTX	HTML5	SCORM
		MLM-024-B	Work Process For Creating MLMs	PDF	MP4	PPTX	HTML5	SCORM
		MLM-024-D	MLM Production Tips	PDF	MP4	PPTX	HTML5	SCORM
		MLM-024-E	What is a Learning Map?	PDF	MP4	PPTX	HTML5	SCORM
		MLM-029-A	Industrial Cyber Security Training	PDF	MP4	PPTX	HTML5	SCORM
26	PATCH MANAGEMENT & SOFTWARE UPDATES							
		MLM-026-A	Software Update and Patching for Owners	PDF	MP4	PPTX	HTML5	SCORM
		MLM-026-B	Software Update and Patching for Vendors	PDF	MP4	PPTX	HTML5	SCORM
34	CYBERSECURE IT TO ACS INTERFACING							
		MLM-034-A	Cybersecure IT to ACS Interfacing	PDF	MP4	PPTX	HTML5	SCORM
		MLM-034-B	Cybersecure Interfacing in Process Industry	PDF	MP4	PPTX	HTML5	SCORM
35	PLC AND RTU CYBERSECURITY							
		MLM-035-A	Cybersecure PLC and RTU Concepts	PDF	MP4	PPTX	HTML5	SCORM
		MLM-035-B	Cybersecure PLC and RTU Programming	PDF	MP4	PPTX	HTML5	SCORM
		MLM-035-C	Cybersecure PLC and RTU Operation	PDF	MP4	PPTX	HTML5	SCORM
		MLM-035-D	Cybersecure Modifications and Upgrades for ACS Edge Devices	PDF	MP4	PPTX	HTML5	SCORM

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37	CYBERSECURITY FOR INDUSTRIAL PLANTS							
		MLM-037-A	Cybersecure ACS Maintenance Procedures	PDF	MP4	PPTX	HTML5	SCORM
		MLM-037-B	Cybersecure Plant Engineering	PDF	MP4	PPTX	HTML5	SCORM
		MLM-037-C	Cybersecure Plant Procurement	PDF	MP4	PPTX	HTML5	SCORM
		MLM-037-D	Cybersecurity for Plant Human Resources Group	PDF	MP4	PPTX	HTML5	SCORM
		MLM-037-E	Cybersecurity for All Plant Personnel	PDF	MP4	PPTX	HTML5	SCORM
		MLM-037-F	IT Software Update	PDF	MP4	PPTX	HTML5	SCORM
38	DEALING WITH CYBERSECURITY INCIDENTS							
		MLM-038-A	Identifying control system cyber incidents	PDF	MP4	PPTX	HTML5	SCORM
		MLM-038-B	Response to Control System Cyber Incidents	PDF	MP4	PPTX	HTML5	SCORM
		MLM-039-A	Preparing for ACS Cyber Insurance	PDF	MP4	PPTX	HTML5	SCORM
		MLM-039-B	Industrial Cybersecurity for Insurance Providers	PDF	MP4	PPTX	HTML5	SCORM
42	ACS CYBERSECURITY CASE STUDIES							
		MLM-042-A	Cyberattacks on Ukraine's Power Grid - Part 1	PDF	MP4	PPTX	HTML5	SCORM
		MLM-042-B	Cyberattacks on Ukraine's Power Grid - Part 2	PDF	MP4	PPTX	HTML5	SCORM
		MLM-042-C	Cyber-attacks on Ukraine's Power Grid 2022 - Russian invasion	PDF	MP4	PPTX	HTML5	SCORM
		MLM-043-A	Case Study: Cybersecurity Incident at a Water Utility	PDF	MP4	PPTX	HTML5	SCORM
50	ACS CYBERSECURITY FOR CISO (CYBERSECURITY INFORMATION SECURITY OFFICERS)							
		MLM-050-A	ACS Cybersecurity for CISOs - Part 1	PDF	MP4	PPTX	HTML5	SCORM
		MLM-050-B	ACS Cybersecurity for CISOs - Part 2	PDF	MP4	PPTX	HTML5	SCORM
		MLM-050-C	ACS Cybersecurity for CISOs - Part 3	PDF	MP4	PPTX	HTML5	SCORM
		MLM-050-D	ACS Cybersecurity for CISOs - Part 4	PDF	MP4	PPTX	HTML5	SCORM
61	ACS CYBERSECURITY FOR COMPANY EXECUTIVES							
		MLM-061-A	ACS Cybersecurity for Executives - part 1 - intro and common	PDF	MP4	PPTX	HTML5	SCORM
		MLM-061-B	ACS Cybersecurity for Executives - part 2 - Board, CEO, COO, CTO	PDF	MP4	PPTX	HTML5	SCORM
		MLM-061-C	ACS Cybersecurity for Executives - part 3 - CFO, CISO, CIO, HR	PDF	MP4	PPTX	HTML5	SCORM
		MLM-061-D	ACS Cybersecurity for Executives - part 4 - summary, key messages	PDF	MP4	PPTX	HTML5	SCORM
		MLM-102-A	Cybersecurity for executive support People	PDF	MP4	PPTX	HTML5	SCORM
70	RISK STUDIES							
		MLM-070-A	Table Top Security Examinations for Power Plants	PDF	MP4	PPTX	HTML5	SCORM
71	LEVEL 0 AND 1 EQUIPMENT AND NETWORKS							
		MLM-071-A	Architecture Models in Relation to Field Equipment & networks	PDF	MP4	PPTX	HTML5	SCORM
		MLM-072-A	Cybersecurity of Field Devices	PDF	MP4	PPTX	HTML5	SCORM
		MLM-073-A	ACS Sensor Networks	PDF	MP4	PPTX	HTML5	SCORM
		MLM-074-A	ISA 62443 Applicability to Level 0, 1 Devices	PDF	MP4	PPTX	HTML5	SCORM
		MLM-075-A	Field Device Vulnerabilities	PDF	MP4	PPTX	HTML5	SCORM
		MLM-076-A	Field Device Access Security	PDF	MP4	PPTX	HTML5	SCORM
		MLM-077-A	Reliability and Security of Fire & Gas Systems	PDF	MP4	PPTX	HTML5	SCORM
		MLM-078-A	ISA 108 Configuration of Level 1 & 2 Field Devices and Networks	PDF	MP4	PPTX	HTML5	SCORM
		MLM-078-B	Level 1 & 2 Field Device and Network Design	PDF	MP4	PPTX	HTML5	SCORM
		MLM-078-C	Level 1 & 2 Field Device and Network Operations	PDF	MP4	PPTX	HTML5	SCORM
		MLM-078-D	Level 1 & 2 Field Device and Network Maintenance	PDF	MP4	PPTX	HTML5	SCORM
		MLM-079-A	Reliability & Security of Wireless Field Devices and Networks	PDF	MP4	PPTX	HTML5	SCORM
		MLM-079-B	Cybersecurity of IIoT Field Devices and Networks	PDF	MP4	PPTX	HTML5	SCORM
80	ACS CYBERSECURITY INDUSTRY PROFILES							
		MLM-080-A	ACS Cybersecurity Profile	PDF	MP4	PPTX	HTML5	SCORM
		MLM-080-B	ACS Cybersecurity Profile (Part 2 Annex)	PDF	MP4	PPTX	HTML5	SCORM
82	CYBERSECURE ACS PROCUREMENT							
		MLM-082-A	Specification of ACS Devices for Safety and Security	PDF	MP4	PPTX	HTML5	SCORM
		MLM-082-B	Capital Facilities Information Handover Specification (CFIHOS)	PDF	MP4	PPTX	HTML5	SCORM
		MLM-082-C	ACS Cybersecurity for Product Suppliers	PDF	MP4	PPTX	HTML5	SCORM
		MLM-082-D	Product Certification for Cybersecure Devices and Systems	PDF	MP4	PPTX	HTML5	SCORM
		MLM-082-E	Product Development Lifecycle for Product Supplier	PDF	MP4	PPTX	HTML5	SCORM
		MLM-082-F	Specification of ACS Services for Safety and Security	PDF	MP4	PPTX	HTML5	SCORM
		MLM-082-G	ISA Secure Certification Program	PDF	MP4	PPTX	HTML5	SCORM

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84	INDUSTRY 4-0							
		MLM-084-A	Industry 4.0 concepts - Process Industry	PDF	MP4	PPTX	HTML5	SCORM
		MLM-084-B	Industry 4.0 and Cybersecurity	PDF	MP4	PPTX	HTML5	SCORM
		MLM-084-C	Analyzer Reliability and Security	PDF	MP4	PPTX	HTML5	SCORM
90	ARTIFICIAL INTELLIGENCE IN ACS							
		MLM-090-A	An Engineer's View of AI in Process Industry	PDF	MP4	PPTX	HTML5	SCORM
		MLM-091-A	Plant AI and Human Interfaces	PDF	MP4	PPTX	HTML5	SCORM
95	DATA INTERFACES FROM ACS TO MES							
		MLM-095-A	Use of ISA 95 in Process Industry	PDF	MP4	PPTX	HTML5	SCORM
		MLM-095-B	Use of ISA 95 in Manufacturing Industry	PDF	MP4	PPTX	HTML5	SCORM