

Process Safety Curriculum

v05.18	Topic/Title	DELIVERY METHOD	LENGTH	LEVEL	PERSONAS								
					Manufacturing Manager	Manufacturing Engineer	Project Manager	Process Design Engineer	Process Control Engineer	Operating Personnel	Industrial Researcher	Corporate	Other Engineers
	Process Safety Overview												
	What Every New Graduate Should Know about Process Safety	Webinar	1 hour	Basic		x		x	x		x		x
	What Every Young Engineer Should Know About Process Safety	Webinar	1 hour	Basic		x		x	x		x		x
	ELA154: CCPS' What Every New Engineer Needs to Know about Process Safety	eLearning Course	2 hours	Basic		x		x	x		x	x	x
	ELA901: SACHE CP: Chemical Process Safety in the Chemical Process Industries	eLearning Course	4 hours	Basic	x	x	x	x	x	x	x	x	x
	ELA122: CCPS' Process Safety Leadership for Front-Line Supervisors	eLearning Course	5 hours	Basic	x	x				x			
	ELA122 ES: CCPS' Liderazgo en Seguridad de Procesos para Supervisores de Primera Línea	eLearning Course	5 hours	Basic	x	x				x			
	ELS105: CCPS' Process Safety Management Overview	eLearning Course	10 hours	Basic	x	x	x	x	x	x	x	x	x
	CH925: CCPS' Overview of Risk Based Process Safety	Classroom Course	2 days	Basic	x	x	x	x	x	x		x	
	ELA120: CCPS' 20 Elements of Risk Based Process Safety	eLearning Course	18 hours	Basic		x	x	x		x		x	
	CH910: CCPS' Foundations of Process Safety	Classroom Course	4 days	Basic		x	x	x		x		x	
	CH900: CCPS' Process Safety Boot Camp	Classroom Course	4 days	Basic		x	x	x		x		x	
	Process Safety for Process Engineers	Webinar	1 hour	Intermediate		x		x	x	x		x	x
	Lo Basico para convivir con Procesos Productivos Seguros	Webinar	1 hour	Intermediate	x	x	x	x	x	x	x	x	x
ILLAR: COMMIT TO PROCESS SAFETY	Process Safety Culture												
	A Little Knowledge is a Dangerous Thing - Reaction Case Studies	Webinar	1 hour	Intermediate		x		x		x			
	Lessons for Chemical Engineers from the Loss of Space Shuttle Columbia	Webinar	1 hour	Intermediate	x	x	x	x	x	x	x	x	x
	Inspiring Process Safety Leadership - The Executive Role	Video	15 min.	Advanced	x							x	
	Compliance with Standards												
	Content coming soon.												
	Process Safety Competency												
	CH902: CCPS' Senior Leaders and Process Safety: The Role and The Opportunity	Classroom Course	1-2 days	Advanced	x							x	
	Workforce Involvement												
	ELA121: CCPS' Hazard Identification for Operators & Maintenance Workers	eLearning Course	8 hours	Basic		x		x		x			

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2nd PILLAR	Safety in the LNG Value Chain	Webinar	1 hour	Intermediate				x	x				
	Laboratory and Industrial Hazardous Chemical Safety - A Code-Based Approach	Webinar	1 hour	Intermediate							x		x
	A Little Knowledge is a Dangerous Thing - Reaction Case Studies	Webinar	1 hour	Intermediate		x		x		x			
	Introduction to Flammable Materials	Webinar	1 hour	Intermediate		x		x	x				
	Teaching Reactive Chemical Hazards to Chemical Engineers	Webinar	1 hour	Intermediate				x	x	x	x		
	Advances in Layers of Protection Analysis	Webinar	1 hour	Intermediate		x		x	x			x	
	ELA962: SACHE CP: Chemical Reactivity Hazards	eLearning Course	2.5 hours	Intermediate	x	x	x	x	x		x		
	ELA109: CCPS' Layer of Protection Analysis (LOPA)	eLearning Course	8 hours	Intermediate		x	x	x	x	x		x	
	CH034: AICHE's Combustible Dust Hazards: Flash Fires & Dust Explosions	Classroom Course	2 days	Intermediate		x		x	x	x	x		
	CH754: CCPS' Advanced Concepts for Process Hazard Analysis	Classroom Course	2 days	Intermediate		x		x	x			x	
	CH901: CCPS' Recognizing Catastrophic Incident Warning Signs	Classroom Course	2 days	Intermediate	x	x		x		x	x		
	CH166: CCPS' Hazard Identification for Operators & Maintenance Workers	Classroom Course	2 days	Intermediate		x				x			
	CH759: CCPS' HAZOP Studies, Other Hazard Evaluations Procedures and Advanced Concepts Combo Course	Classroom Course	5 days	Intermediate		x		x	x			x	
	Dust Explosions	Webinar	1 hour	Advanced	x	x	x	x					
Flame Flashbacks: Causes and Prevention	Webinar	1 hour	Advanced		x		x	x	x				
Operating Procedures													
Content coming soon.													
Safe Work Practices													
	ELA909: SACHE® Certificate Program - Basics of Laboratory Safety	eLearning Course	4 hours	Basic							x		
Asset Integrity and Reliability													
	Maintenance and Reliability for Chemical Engineers - Part 1: The Evolution to Asset Management	Webinar	1 hour	Intermediate	x	x		x					
	Maintenance and Reliability for Chemical Engineers—Part 2: Asset Care Principles	Webinar	1 hour	Intermediate	x	x		x					
	Maintenance and Reliability for Chemical Engineers - Part 3: The Tools of Reliability	Webinar	1 hour	Intermediate	x	x		x					
	Maintenance and Reliability for Chemical Engineers Part 4-Building the Business Case	Webinar	1 hour	Intermediate	x	x		x					

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4th PIL	Management Review and Continuous Improvement												
	Content coming soon.												
	Other												
	ELA100: Process Safety Management for Biodiesel	eLearning Course	5 hours	Basic	x	x		x		x	x		
	ELA124: CCPS' Process Safety Management for Bioethanol	eLearning Course	5 hours	Basic	x	x		x		x	x		
	Strategies for Addressing ABET Safety Curriculum Requirements	Webinar	1 hour	Intermediate									
	Process Safety in Design												
	ELA155: CCPS' The Importance of Codes and Standards for Process Safety	eLearning Course	2 hours	Basic		x		x	x	x	x	x	x
	ELA910: SACHE CP: Nitrogen's Role in Safety	eLearning Course	2 hours	Basic	x	x	x	x	x	x	x		
	ELA906: SACHE CP: Dust Explosion Control	eLearning Course	4 hours	Basic	x	x	x	x	x	x	x		
	ELA902: SACHE CP: Runaway Reactions	eLearning Course	4 hours	Basic	x	x		x	x	x	x		
	ELA962: SACHE CP: Chemical Reactivity Hazards	eLearning Course	2.5 hours	Intermediate	x	x	x	x	x		x		
	CH800: CCPS' Inherently Safer Design	Classroom Course	1 day	Basic	x	x	x	x	x		x		
	CH172: DIERS' Basic Emergency Relief System Design	Classroom Course	3 days	Basic				x					x
	Safety in the LNG Value Chain	Webinar	1 hour	Intermediate				x	x				
	A Little Knowledge is a Dangerous Thing - Reaction Case Studies	Webinar	1 hour	Intermediate		x		x		x			
	Safety Issues in Particle Handling: Dust Explosions	Webinar	1 hour	Intermediate	x	x	x	x	x	x	x		
	Laboratory and Industrial Hazardous Chemical Safety: A Code-Based Approach	Webinar	1 hour	Intermediate							x		x
	ELA984: SACHE CP: Inherently Safer Designs	eLearning Course	3 hours	Advanced	x	x	x	x	x		x		
	CH034: Combustible Dust Hazards: Flash Fires & Dust Explosions	Classroom Course	2 days	Intermediate		x		x					
	Dust Explosions	Webinar	1 hour	Advanced	x	x	x	x					
	Flame Flashbacks: Causes and Prevention	Webinar	1 hour	Advanced		x		x	x	x			
	Pressure Relief Systems Effluent Handling	Webinar	1 hour	Advanced		x		x					
	CH173: DIERS' Advanced Emergency Relief System Design	Classroom Course	3 days	Advanced				x					x

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	Regulation												
	CH501: The OSHA Regulatory Approach to Process Safety Management	Classroom Course	3 days	Basic		x						x	
	Preparing for OSHA's Chemical NEP Inspections	Webinar	1 hour	Intermediate	x	x				x		x	
	OSHA's New Chemical National Emphasis Program	Webinar	2 hours	Intermediate	x	x						x	