PROCESS HAZARD ANALYSIS (PHA) **TRAINING COURSES** Refresher Training Advanced Process Leadership and **PHA Essentials CHAZOP Studies Process Hazard Analysis** for Process Hazard **PHA for Batch Processes** Bow Ties Hazard Analysis (PHA) Facilitation Skills for Courses (PHA) for Team Leaders for Team Leaders Analysis (PHA) for Process Safety and Procedures in Process Safety for Team Leaders **PHA Team Leaders** Team Leaders Face-to-Face 5-days | \$3,595 N/A 2-days | \$1,725 3-days | \$2,225 1-day | \$975 1-day | \$975 3-days | \$2,225 2-days | \$1,725 Live-Streamed N/A N/A N/A N/A 5-half days | \$1,795 5-half days | \$1,795 2-half days | \$895 4-half days | \$1,650 Live-Streamed January 1/22-26 Houston, TX **February** 2/12-16 Live-Streamed March 3/25-29 Orlando, FL April 4/29 - 5/3 Live-Streamed May 5/20-24 Houston, TX Live-Streamed June 6/17-21 6/24-28 Mexico City, Mexico* Live-Streamed Live-Streamed Live-Streamed July 7/15-19 7/15-19 7/18-19 7/30 - 8/2 Chicago, IL August 8/5-9 Dublin, Ireland* Live-Streamed Houston, TX Houston, TX September 9/16-20 9/23-27 9/9-10 9/11-13

Houston, TX

10/7

Live-Streamed

11/11-15

Houston, TX

10/14-18

Singapore, Singapore* 12/2-6

> Houston, TX 12/9-13

October

November

December

Austin, TX

11/21-22

Houston, TX

10/9-11

	DUST HAZAI	RD ANALYSIS (DHA 1) AND OTHER PROC RAINING COURSES	LAYERS OF PROTECTION ANALYSIS (LOPA) TRAINING COURSES				
Courses	Dust Hazard Analysis and Risk Assessment	Facilitating Brainstorming and Creative Thinking in PHA Studies	Understanding and Addressing Chemical Reactivity Hazards in PHA	Using Risk Matrices Correctly in Process Safety	How to Revalidate PHA Studies	Layers of Protection Analysis (LOPA) for Process Safety Management (PSM)	SIL Determination Using Risk Matrices, Risk Graphs and LOPA	Understanding and Applying Risk Tolerance Criteria for LOPA
Face-to-Face	2-days \$1,725	N/A	N/A	N/A	N/A	3-days \$2,225	1-day \$975	1-day \$975
Live-Streamed	4-half days \$1,650	4 hours \$399	4 hours \$399	4 hours \$399	4 hours \$399	5-half days \$1,795	2-half days \$895	2-half days \$895
January						Live-Streamed 1/29 - 2/2		
February	Live-Streamed 2/6-9							
March								
April								
May								
June			Live-Streamed 6/14		Live-Streamed 6/13	Live-Streamed 6/24-28		
July							Live-Streamed 7/9-10	Live-Streamed 7/11-12
August	Chicago, IL 8/13-14					Houston, TX 8/19-21	Houston, TX 8/22	Houston, TX 8/23
September		Live-Streamed 9/25		Live-Streamed 9/26				
October			Live-Streamed 10-18		Live-Streamed 10/18			
November	Live-Streamed 11/5-8					Houston, TX 11/18-20	Houston, TX 11/21	Houston, TX 11/22
December						Singapore, Singapore* 12/9-11	Singapore, Singapore* 12/12	Singapore, Singapore* 12/13

PROCESS SAFETY AND RISK MANAGEMENT TRAINING COURSES

	TRAINING COURSES								
Courses	Process Safety Management (PSM) Part I - Design and Implementation	Process Safety Management (PSM) Part II - Auditing Programs	Comprehensive Process Safety Management for Facility Personnel	Management of Change (MOC) for Process Safety	Mechanical Integrity (MI) for Process Safety and Risk Management	Applying Creative Thinking and Critical Thinking In Process Safety	Developing and Implementing a Competence Management Program for Process Safety		
Face-to-Face	2-days \$1,725	2-days \$1,725	3-days \$2,225	1-day \$975	3-days \$2,225	2-days \$1,725	1-day \$975		
Live-Streamed	2-half days \$895	4-half days \$1,650	5-half days \$1,795	2-half days \$895	5-half days \$1,795	N/A	N/A		
January	Live-Streamed 1/4-5								
February	Houston, TX 2/5-6	Houston, TX 2/7-8							
March		Live-Streamed 3/25-28			Houston, TX 3/19-21				
April									
May									
June	Live-Streamed 6/5-6	Live-Streamed 6/10-13							
July			Houston, TX 7/23-25	Live-Streamed 7/16-17	Live-Streamed 7/22-26				
August	Sante Fe, NM 8/12-13	Santa Fe, NM 8/14-15							
September									
October	Live-Streamed 10/1-2	Live-Streamed 10/15-18		Austin, TX 10/28	Austin, TX 10/29-31	Houston, TX 10/9-10	Houston, TX 10/11		
November			Austin, TX 11/18-20						
December	Houston, TX 12/2-3	Houston, TX 12/4-5							

	HUMAN FACTORS AND PROCEDURE WRITING TRAINING COURSES			IEC 61511 / ISA 84 AND SIL VERIFICATION TRAINING COURSES		CYBER SECURITY TRAINING COURSES		SOFTWARE TRAINING COURSE
Courses	Understanding and Applying Human Factors for Process Safety	Principles of Procedure Writing for the Process Industries	Advanced Procedure Writing for the Process Industries	Understanding IEC 61511 / ISA 84 and Developing a Safety Requirements Specification	Safety Integrity Level (SIL) Verification for Safety Instrumented Systems	Understanding and Applying Cyber Security for Manufacturing and Computer Control Systems	Cyber Security Vulnerability Analysis for Manufacturing and Computer Control Systems	Using PHAWorks RA Edition® Software
Face-to-Face	1-day \$975	2-days \$1,725	2-days \$1,725	1-day \$975	3-days \$2,225	2-days \$1,725	2-days \$1,725	1-day \$975
Live-Streamed	2-half days \$895	4-half days \$1,650	4-half days \$1,650	2-half days \$895	5-half days \$1,795	N/A	N/A	N/A
January								
February								
March								
April								
May								
June	Live-Streamed 6/25-26							
July		Live-Streamed 7/16-19		Live-Streamed 7/1-2	Live-Streamed 7/29 – 8/2			
August			Live-Streamed 8/27-30			_		
September						Houston, TX 9/24-25	Houston, TX 9/26-27	Columbus, OH 9/12
October				Houston, TX 10/14	Houston, TX 10/15-17			
November	Houston, TX 11/4	Houston, TX 11/5-6	Houston, TX 11/7-8					
December								

TECHNICAL BRIEFINGS (LIVE-STREAMED) 2024 **Technical Briefing Cost | Duration (all durations are approximate)** April May June July August September How to Perform PHA to Facilitate LOPA 6/12 \$199 | 2 hours How to Perform HAZOP on Procedures and Batch Processes 7/2 \$149 | 1.5 hours **How to Assign Nodes in HAZOP Studies** 8/27 \$199 | 2 hours **Understanding and Addressing Domino Effects in PHA** 8/28 \$199 | 2 hours How to Identify IPLs for LOPA Studies 7/23 \$399 | 4 hours **Use of Data Analytics in PHA** 8/26 \$299 | 3 hours **How to Perform CHAZOP for Process Control Systems** Inquire for dates \$399 | 4 hours Preparing and Submitting an EPA Risk Management Plan Inquire for dates \$299 | 3 hours **Hydrogen Safety** Inquire for dates \$199 | 2 hours Facilitation Skills for PHA and LOPA Team Leaders Inquire for dates

Primatech offers both live-streamed and face-to-face training courses. Primatech also offers live-streamed technical briefings of shorter duration. Live-streamed courses and technical briefings are hosted on GoToTraining. Recording of course or technical briefing presentations in any form is strictly prohibited.

Please email <u>training@primatech.com</u> for additional information.