ABS Group

TRAINING SOLUTIONS AND SERVICES

2024-2025 COURSE CATALOG

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About Us

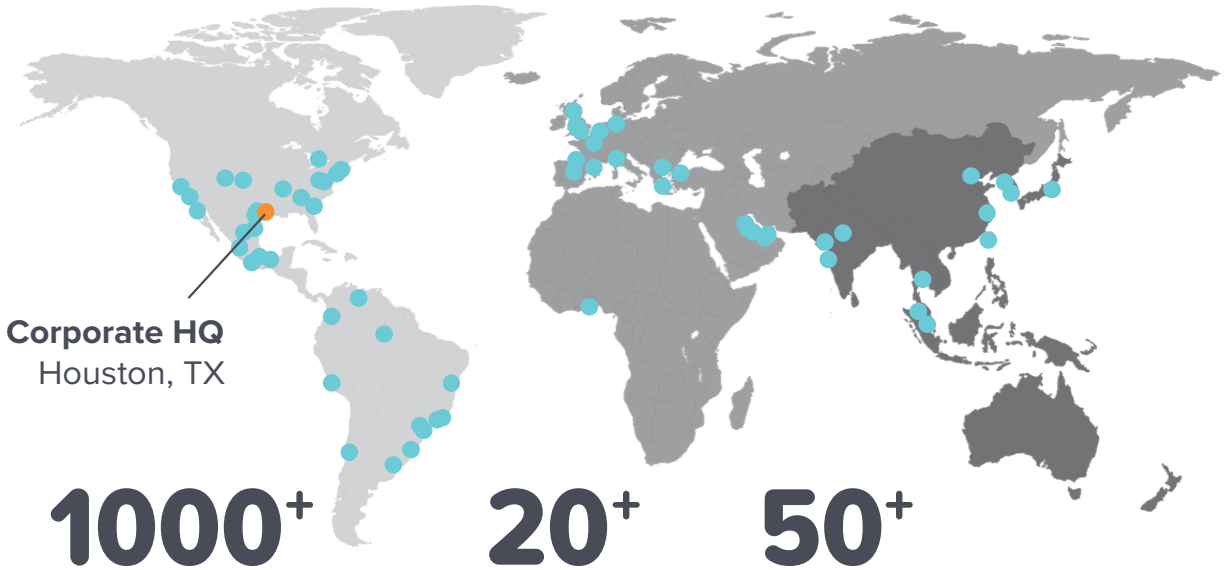
For over five decades, ABS Group has set the standard for risk and reliability management, providing technical expertise to a wide range of diverse industries worldwide.

ABS Group provides data-driven risk and reliability solutions and technical services that help clients confirm the integrity, quality and efficiency of critical assets and operations. Our training experts have delivered customized public and private courses that have helped thousands of professionals globally.

We Wrote the Book

Unlike other providers, our instructors are industry experts and practicing engineers, meaning if you call us for incident investigation support, or process safety management assistance, one of our trainers may very well turn up at your site. This enables us to provide world-class training solutions, with up to date techniques from recent real-world experiences.

> *We don't simply teach from approved textbooks; our technical experts have written and developed the key industry guidelines and publications used today.*



1000+
Professionals

20+
Countries

50+
Years

Training Options

At ABS Group we provide our clients with the most cost effective and flexible training options in order to meet the ever-changing needs of an organization. We have three (3) training options available to allow for the greatest flexibility.

- Private on-site instructor led
- Public in-person/virtual instructor led
- eLearning

PRIVATE ON-SITE OR VIRTUAL INSTRUCTOR LED TRAINING

Our private training is our most customizable solution, offering tailored examples and exercises based on the needs of your organization. We partner with our clients to find the best time, date and location for their training.

PUBLIC IN PERSON/VIRTUAL

Our public courses are available to any individual who wishes to attend. The courses may be attended either in person at one of our training locations around the world, or virtually from wherever your employees are based.

eLEARNING

Our eLearning options can be integrated into your in-house learning management system. With a variety of courses available to you, you can make sure your in-house training is of the highest quality with one of our online modules.

ABS Group Certification Programs

Available Certification Programs:

- PSM/RMP Auditor
- Root Cause Analysis/Incident Investigation
- Maritime Root Cause Analysis (RCA) / Incident Investigation
- PHA Leader
- Advanced PHA Leader

How Much Does a Certification Program Cost?

Certification programs are priced between $550 to $600 (USD).

Do I Need Any Prior Qualifications?

Certification Programs typically require attendees to have either a college degree and 2 years experience or a high school diploma and 5 years experience.

Is There a Time Limit for Completing the Certification Program?

Each Certification Program must be completed within 12 months, apart from the PSM/RMP Auditor which must be completed within 18 months.

SCAN ME, CLICK ME

Receive the training you need for a fraction of the regular cost with our pre-enrollment savings plan.

View more information about our programs by scanning or clicking on the QR code.

"This has been a fantastic training experience! I had fun working with other attendees who were engaged - very refreshing!" - Client Feedback

Process Safety Management Courses

Our Process Safety Management (PSM) Courses are designed to support clients who work alongside the U.S. Occupational Safety and Health Administration (OSHA) PSM regulations.

From compliance auditing to resubmitting Environmental Protection Agency (EPA) Risk Management Plans (RMP), our courses can support you on your journey to a safer facility.

CLICK | SCAN

INSTUCTOR-LED COURSE - SEE WEBSITE FOR LOCATIONS AND DETAILS

C100: Process Safety Management

ABOUT THIS COURSE

Learn how to interpret the performance-based requirements of the OSHA process safety management (PSM) regulation and the prevention program portion of the EPA risk management program (RMP) rule (the PSM regulations). You will also learn how to develop and implement a cost-effective PSM program for a single facility or an entire corporation.

IN PERSON
$1945
3 day

VIRTUAL
$1945
4 days

PRIVATE
Request Quote
3 days

WHO SHOULD ATTEND?

- Those needing to implement or maintain an effective PSM program
- Those who will be leading compliance auditing and risk management program compliance efforts
- Everyone who interacts with industry regulators

WHAT WILL I LEARN?

- Learn how to determine whether your facility is covered by OSHA's 29 CFR 1910.119 and EPA's 40 CFR 68
- Develop the understanding necessary to explain the PSM requirements to others in your company who need to understand the issues
- Discover a range of options for compliance that will allow you to develop a PSM program that addresses your specific needs
- Get up-to-the-minute information on OSHA and EPA regulatory enforcement activities and interpretations
- Learn to avoid costly mistakes made by others
- 2.1 Continuing Education Units (CEU)

COMBINE C100 & C101 TO SAVE

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INSTUCTOR-LED COURSE - SEE WEBSITE FOR LOCATIONS AND DETAILS

C101: Compliance Auditing

ABOUT THIS COURSE

In this course, you will learn to perform compliance auditing of process safety management (PSM) and risk management program (RMP) systems in accordance with OSHA and EPA regulations. Attendees will also learn the fundamentals of compliance auditing as well as how to perform compliance auditing of PSM and RMP programs, document the audit results and structure reports for optimal effectiveness.

IN PERSON
$1325
2 day

VIRTUAL
$1325
3 days

PRIVATE
Request Quote
2 days

WHO SHOULD ATTEND?

- Everyone who needs to develop an auditing program, which is suggested in Appendix C of OSHA's PSM regulation
- Those needing to design or improve an overall auditing program for either a facility or company

WHAT WILL I LEARN?

- Learn the fundamentals of auditing to help you structure effective PSM/RMP audits
- Receive auditing tools based on programs that have been successful at companies like yours
- Gain experience in an audit team environment with real-time constraints
- Practice auditing techniques, interviewing personnel and obtaining consensus among team members
- Obtain hands-on experience in reviewing PSM/RMP programs and documentation and in writing specific, concise audits
- 1.4 Continuing Education Units (CEU)

COMBINE C100 & C101 TO SAVE

CLICK | SCAN

INSTUCTOR-LED COURSE - SEE WEBSITE FOR LOCATIONS AND DETAILS

C103: Risk Based Process Safety

ABOUT THIS COURSE

This course teaches you how to use the risk based process safety (RBPS) guidelines to design a new process safety management (PSM) system, correct a deficient PSM system or improve PSM practices. This new framework for process safety builds upon the original ideas published by the Center for Chemical Process Safety (CCPS) in the early 1990s. It integrates industry lessons learned over the intervening years; applies the management system principles of plan, do, check, act; and organizes them in a way that will be useful to all organizations – even those with relatively low-hazard activities – throughout the life cycle of a process or operation.

IN PERSON

$1325

2 day

VIRTUAL

$1325

2.5 days

PRIVATE

Request Quote

2 days

WHO SHOULD ATTEND?

- Everyone who is unfamiliar with the CCPS framework for the next generation of PSM
- Anyone whose company is challenged by inadequate management system performance, resource pressures or stagnant process safety results

WHAT WILL I LEARN?

- Learn how to apply the next-generation PSM system from the people who wrote the book
- Learn how to improve existing PSM elements or effectively develop new elements
- Learn how to measure the performance of your RBPS elements
- 1.4 Continuing Education Units (CEU)

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INSTUCTOR-LED COURSE - SEE WEBSITE FOR LOCATIONS AND DETAILS

C104: Risk Management Program Compliance

ABOUT THIS COURSE

Learn about the mandated components of a risk management program (RMP) and how to implement a compliance strategy. Learn the basics of hazard assessments, emergency response programs and risk management plans (RMPlans) as well as the current rulemaking and enforcement initiatives such as EPA audits.

IN PERSON	VIRTUAL	PRIVATE
$1325	$1325	Request Quote
2 day	3 days	2 days

WHO SHOULD ATTEND?

- Anyone involved in the development and communication of RMPlans as required by EPA's RMP rule 40 CFR 68

WHAT WILL I LEARN?

- Learn how to perform and document hazard assessments
- Learn how to upgrade your OSHA process safety management program and emergency response program to meet EPA's requirements
- Use the results of these required programs to help make risk management decisions
- Document the results in a format that the public will understand
- 0.7 Continuing Education Units (CEU)

COMBINE C104 & C105 TO SAVE

CLICK | SCAN

INSTUCTOR-LED COURSE - SEE WEBSITE FOR LOCATIONS AND DETAILS

C105: Resubmitting EPA RMPlans

ABOUT THIS COURSE

Learn how to evaluate and update your existing risk management plan (RMPlan) to comply with the 5-year resubmission requirements of EPA's risk management program (RMP) rule (40 CFR 68). This course provides expert guidance and proven techniques, developed by our engineers during many years of RMP compliance work, for assessing and updating RMPlans in a timely and cost-effective manner.

IN PERSON	VIRTUAL	PRIVATE
$695	$695	Request Quote
1 day	1 days	2 days

WHO SHOULD ATTEND?

- Those who have been given the responsibility of preparing and resubmitting/correcting a RMPlan to meet the requirements of 40 CFR 68 for their facility
- Anyone who needs to confirm that their facility or company has covered all regulatory responsibilities under 40 CFR 68 prior to resubmitting the RMPlan

WHAT WILL I LEARN?

- Learn the pitfalls and mistakes most commonly made when correcting and/or updating RMPlans
- Receive an update on the most recent guidance provided by EPA on RMP rule requirements, interpretations and resubmitting RMPlans
- Receive guidance/tools that will help you efficiently and cost effectively update and submit your revised RMPlan
- Gain experience in assessing/updating example RMPlans in an interactive workshop setting
- Learn ways to maintain your RMPlan to make future resubmittals easier
- 0.7 Continuing Education Units (CEU)

COMBINE C104 & C105 TO SAVE

CLICK | SCAN

INSTUCTOR-LED COURSE - SEE WEBSITE FOR LOCATIONS AND DETAILS

C108: Bowtie Risk Management

ABOUT THIS COURSE

Effective risk management requires a thorough understanding of the accident pathways linking threats to potentially catastrophic consequences and the measures implemented to prevent this happening. Bowtie diagrams provide a simple visualization of the relationships and the barriers preventing the catastrophic consequences. Bowtie diagrams are easy to interpret unlike the complex and/or numerical results from other risk assessment methods (e.g. PHA, QRA, LOPA) in a way that is easier for non-experts, workforce, engineers and managers to understand.

IN PERSON	VIRTUAL	PRIVATE
$1325	$1325	Request Quote
2 day	3 days	2 days

WHO SHOULD ATTEND?

- People who would like to understand whether Barrier Diagrams would add value to their organization
- People who have been tasked with creating or using Barrier Diagrams

WHAT WILL I LEARN?

- Fundamentals of the Barrier (Bowtie) Methodology
- How to use bowtie diagrams to enhance incident investigations
- How to incorporate Human Factors into bowtie diagrams
- An introduction to Layer of Protection Analysis (LOPA)
- View a free trial of Bowtie Master
- How to correctly apply the methodology to manage risks and maximize benefits
- 1.4 Continuing Education Units (CEU)

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INSTUCTOR-LED COURSE - SEE WEBSITE FOR LOCATIONS AND DETAILS

C114: Management of Change

ABOUT THIS COURSE

This course emphasizes hazard review techniques commonly used to evaluate changes. It also focuses on improving existing programs for management of change (MOC) and pre-startup safety review (PSSR). You will also learn about other topics such as managing changes during the construction phase of major capital projects, managing personnel changes and using software systems to manage change. Although the techniques covered in this course meet process safety management requirements, the focus is on effectiveness and efficiency, not simply complying with regulations.

IN PERSON
$1325
2 day

VIRTUAL
$1325
3 days

PRIVATE
Request Quote
1 days

WHO SHOULD ATTEND?

- Those who need to recognize change and common change initiators
- Those who need to make sure that risks are understood
- Those who evaluate controls to manage risk
- Those who follow through to confirm that changes are implemented as intended

WHAT WILL I LEARN?

- Learn to manage change effectively both to fulfill requirements and to gain a competitive advantage
- 1.4 Continuing Education Units (CEU)

COMBINE C110, C111, C114 TO SAVE

CLICK | SCAN

INSTUCTOR-LED COURSE - SEE WEBSITE FOR LOCATIONS AND DETAILS

C131: Mechanical Integrity and Understanding RAGAGEPs

ABOUT THIS COURSE

This course addresses OSHA process safety management and EPA risk management program mechanical integrity (MI) requirements. Attendees will learn how to develop and implement an efficient MI program. It also includes the inspection, test and preventive maintenance (ITPM) activities for equipment in the petrochemical industry and the recognized and generally accepted good engineering practices (RAGAGEPs) that are the bases for equipment design, fabrication, installation and ITPM plans.

IN PERSON	VIRTUAL	PRIVATE
$1945	$1945	Request Quote
3 day	4 days	3 days

WHO SHOULD ATTEND?

- Those who need to implement, improve and/or audit mechanical integrity programs
- Those who are responsible for mechanical integrity compliance with OSHA and EPA regulations
- Those who need to know regulations for design, inspection and construction in accordance with RAGAGEPs

WHAT WILL I LEARN?

- This course will cover the pertinent codes and standards and ITPM activities for: Pressure Vessels and Storage Tanks, Piping Systems, Relief and Vent Systems, Rotating Equipment, Instrumentation and Electrical, Fire Protection and Other Mitigation Equipment Learn strategies for developing inspection, testing, preventive maintenance (ITPM) plans, maintenance procedure lists and maintenance training programs.
- Return to your facility with the means to evaluate current plant practices and immediately begin upgrading the MI program
- Gain knowledge of codes and standards that are the foundation of equipment reliability programs for world-class facilities
- 1.9 Continuing Education Units (CEU)

COMBINE C110, C111, C114 TO SAVE

Process Hazard Analysis Courses

Our Process Hazard Analysis (PHA) and Revalidation courses are designed to support individuals to gain the skills necessary to perform PHAs and accompanying studies to comply with OSHA PSM and other regulatory requirements.

CLICK | SCAN

INSTUCTOR-LED COURSE - SEE WEBSITE FOR LOCATIONS AND DETAILS

C110: Process Hazard Analysis Leader

ABOUT THIS COURSE

Learn practical methods for performing process hazard analysis (PHAs) of systems, procedures and computer software using the hazard and operability (HAZOPs), what if / what-if and checklist analysis techniques that address federal regulatory requirements. Qualify as a “knowledgeable” PHA leader, as required by OSHA and EPA and be eligible for certification as a PHA leader.

IN PERSON	VIRTUAL	PRIVATE
$2575	**$2575**	**Request Quote**
4 day	**5 day**	**4 days**

WHO SHOULD ATTEND?

- Anyone who needs to learn how to apply HAZOP, what-if and checklist analyses to any process or system in industries such as chemical, petroleum, pulp and paper, explosives, mining, iron and steel, pharmaceuticals and consumer products

WHAT WILL I LEARN?

- Learn from experts how to perform a PHA, including collecting information, selecting the team, leading a meeting and documenting results
- Focus on human factors issues to analyze procedures in areas such as startup, shutdown and maintenance
- 2.8 Continuing Education Units (CEU)

C110s: Process Hazard Analysis with LEADER Software
Our standard PHA course but following paid registration, we will contact you to complete the software license registration at a discounted rate.

C110st: LEADER Software Workshop
This workshop is for licensed users of the LEADER™ software as part of the annual maintenance program. This workshop follows the Process Hazard Analysis Leader course.

Enquire online for more information.

CLICK | SCAN

INSTUCTOR-LED COURSE - SEE WEBSITE FOR LOCATIONS AND DETAILS

C111: Process Hazard Analysis Overview

ABOUT THIS COURSE

Gain an understanding of key concepts, techniques, and approaches for completing process hazard analyses (PHAs), management of change (MOC) hazard reviews, and related studies that meet regulatory requirements and industry best practices

IN PERSON	VIRTUAL	PRIVATE
$695	$695	Request Quote
1 day	1 day	2 days

WHO SHOULD ATTEND?

- PHA/hazard review participants, PSM program managers, auditors, information gatherers, and others who need an overview of what is involved in preparing for, completing, and documenting a good PHA

WHAT WILL I LEARN?

- Overview of PSM and PHA requirements
- Essential process safety information, team members/roles, and topics/aspects that must be covered for a regulatory compliant PHA
- Differences between commonly used terms such as PHA, MOC, and HAZOP
- Typical PHA risk ranking approaches (e.g., crediting protection layers)
- An overview of PHA technique(s), their differences, and when/how each technique is used in a PHA
- An overview of piping and instrumentation diagrams (P&IDs), their symbols and terminology, and how they are typically sectioned for a PHA
- Common approaches for covering human factors, facility siting, and previous incidents in a PHA
- PHA reporting, follow-up, and revalidation requirements
- 0.7 CEU, 0.7 COC, 1.17 CM, ABIH approval #10-223

COMBINE C110, C111, C114 TO SAVE

CLICK | SCAN

INSTUCTOR-LED COURSE - SEE WEBSITE FOR LOCATIONS AND DETAILS

C113: Revalidating Process Hazard Analyses

ABOUT THIS COURSE

In this course attendees learn how to efficiently revalidate process hazard analyses (PHAs). By learning how to use a revalidation decision tree, attendees gain a productive revalidation tool that accounts for management goals, previous documentation, PHA quality and operating history. Whether or not you are subject to the U.S. OSHA process safety management (PSM) regulation (29 CFR 1910.119), it is considered a recognized and generally accepted industry practice to update or revalidate PHAs or other types of risk analyses every 5 years to confirm that the “risk picture” of the process or facility has not changed.

IN PERSON
$1325
2 day

VIRTUAL
$1325
3 days

PRIVATE
Request Quote
2 days

WHO SHOULD ATTEND?

- Anyone who needs to determine an appropriate approach for revalidation
- Anyone who needs to effectively address previous PHA deficiencies
- Anyone who needs to prepare for and document a PHA revalidation
- Those who want to expand their basic PHA leadership skills may want to consider taking the Advanced PHA Leader course or the Layer of Protection Analysis course

WHAT WILL I LEARN?

- Discover how to identify a revalidation approach that will work for your PHAs
- Learn ways to lead a team through a revalidation analysis that satisfies OSHA and EPA requirements
- Gain a thorough understanding of your options for addressing PHA revalidation requirements
- Learn what resources may be required to perform a revalidation and how to use them more efficiently
- Learn how to prepare for, perform and document a revalidation analysis to make future analyses easier and to produce a report useful to other end users in your company
- 1.4 Continuing Education Units (CEU)

COMBINE C110, C111, C114 TO SAVE

CLICK | SCAN

INSTUCTOR-LED COURSE - SEE WEBSITE FOR LOCATIONS AND DETAILS

C118: Process Hazard Analyses (PHA) Refresher

ABOUT THIS COURSE

Get a refresher on (or deeper understanding of) key concepts, techniques, and approaches for efficiently conducting and documenting process hazard analyses (PHAs), management of change (MOC) hazard reviews, and related studies that meet regulatory requirements and industry best practices in this two day in person course. Previous participation in a HAZOP, what-if/checklist analysis, and/or failure modes and effects analysis (FMEA) is not a prerequisite but is recommended.

IN PERSON	VIRTUAL	PRIVATE
$1325	$1325	Request Quote
2 day	3 days	2 days

WHO SHOULD ATTEND?

- PHA leaders who need a refresher on PHA regulatory requirements and best practices as well as PHA/hazard review participants, auditors, and others who need a deeper understanding of what is involved in completing and documenting a good PHA

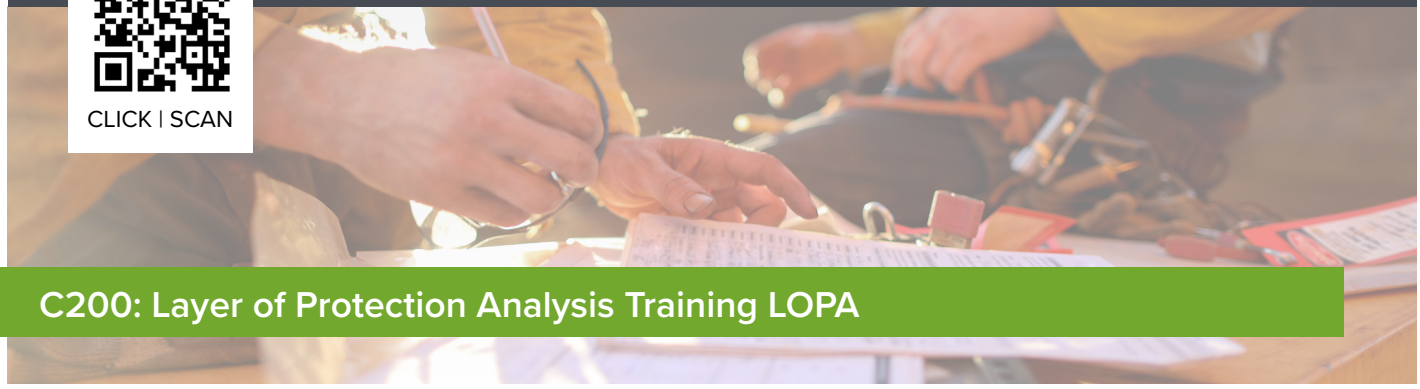
WHAT WILL I LEARN?

- Essential process safety information, team members/roles, and topics/aspects that must be covered for a regulatory compliant PHA
- Differences between commonly used terms such as PHA, MOC, and HAZOP
- Typical PHA risk ranking approaches (e.g., crediting protection layers)
- How to choose a PHA technique(s) and estimate how long it will take
- An overview of piping and instrumentation diagram (P&ID) symbols and terminology
- How to define the scope/boundaries and section/highlight P&IDs for a PHA
- HAZOP documentation options (e.g., cause-by-cause, interlinking deviations, handling of same/similar scenarios)
- Common approaches for covering human factors, facility siting, and previous incidents
- PHA reporting, follow-up, and revalidation requirements
- 1.4 CEU, 1.4 COC, 2.34 CM, ABIH approval #10-223

COMBINE C200 & C210 TO SAVE

CLICK | SCAN

INSTUCTOR-LED COURSE - SEE WEBSITE FOR LOCATIONS AND DETAILS



C200: Layer of Protection Analysis Training LOPA

ABOUT THIS COURSE

Layer of Protection Analysis (LOPA) is the newest methodology for hazard evaluation and risk assessment. LOPA is a hybrid of qualitative and quantitative analysis and helps the analyst to make consistent decisions on the adequacy of existing or proposed layers of protection against an accident or scenario. The technique is ideally suited for companies striving to meet specific risk targets or to lower risk as low as reasonably practicable (ALARP).

IN PERSON

$1325

2 day

VIRTUAL

$1325

2.5 days

PRIVATE

Request Quote

2 days

WHO SHOULD ATTEND?

- Executives who want to expand their risk management strategies by adding LOPA
- Safety specialists who are familiar with existing methods and want to add LOPA to their skill set
- Risk analysts who have used qualitative hazard technologies and need to perform LOPA
- Process engineers, chemists, operations and maintenance personnel and others who may be affected by LOPA recommendations

WHAT WILL I LEARN?

- Learn rules for how and when companies can use LOPA to determine which scenarios pose the greatest risk and which scenarios have residual risk that is too high
- Learn how to:
  - Estimate the frequency category for the initiating event of a scenario
  - Develop scenarios for either a new process or changes to a process
  - Develop scenarios starting from a qualitative hazard evaluation (e. g. HAZOP analysis)
  - Calculate the scenario risk and determine the consequence category for the unmitigated scenario
  - Determine which protection layers meet the criteria for independence and uniqueness
- Receive a student tex book, a CCPS book on LOPA and risk acceptance and judgment protocols
- 1.4 Continuing Education Units (CEU)

COMBINE C200 & C210 TO SAVE

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INSTUCTOR-LED COURSE - SEE WEBSITE FOR LOCATIONS AND DETAILS

C210: Safety Integrity Level

ABOUT THIS COURSE

This course focuses on the principles involved in the design of safety instrumented systems (SIS) that conform to the requirements of ANSI/ISA-61511-2018. (IEC 61511 Mod). In this intensive course, we will teach you how to evaluate the need for a safety instrumented function (SIF), evaluate potential system architectures and analyze the system to determine its predicted performance, from both a risk reduction and reliability standpoint.

IN PERSON	VIRTUAL	PRIVATE
$1325	**$1325**	**Request Quote**
2 day	**2.5 days**	**2 days**

WHO SHOULD ATTEND?

- Those who will be involved in the design, evaluation, operation and maintenance of safety instrumented systems

WHAT WILL I LEARN?

- Learn how to design, specify and evaluate performance of safety instrumented functions within a safety instrumented system
- Learn the importance of good maintenance procedures for the integrity of your systems
- Gain an understanding of the regulatory requirements for safety instrumented systems
- 1.4 Continuing Education Units (CEU)

COMBINE C200 & C210 TO SAVE

Root Cause Analysis Courses

Our Root Cause Analysis courses are designed to support organizations to get to the bottom of their incidents and prepare mitigation strategies to prevent future incidents.

CLICK | SCAN

INSTUCTOR-LED COURSE - SEE WEBSITE FOR LOCATIONS AND DETAILS

C120: Root Cause Analysis and Incident Investigation

ABOUT THIS COURSE

Learn to use the license-fee-free SOURCE™ root cause analysis (RCA) methodology for investigating incidents. This methodology will help you initiate a RCA incident investigation, gather data for investigating all types of incidents, collect data through interviews and parts analyses and apply powerful techniques (timelines, cause and effect trees, Root Cause Map™ and 5-whys) for causal factor and root cause identification.

Avoid future incidents by developing appropriate recommendations using our four-level recommendation development guidance to address each of the causal factors and root causes, structure reports for optimum effectiveness, develop your data-trending process to identify systemic problem areas and more.

IN PERSON	VIRTUAL	PRIVATE
$1945	**$1945**	**Request Quote**
3 day	**5 days**	**5 days**

WHO SHOULD ATTEND?

- Anyone who needs to learn incident investigation skills
- Anyone who needs to know how to meet requirements of standards and regulations for investigation of incidents with safety, health, reliability, environmental and quality impacts

WHAT WILL I LEARN?

- Learn how to investigate serious and complex incidents and the importance of near-miss investigations, incident classification and data trending
- Learn how to identify root causes (not just causal factors) using proven techniques
- You'll walk away with your course notebook, a copy of our Root Cause Analysis Handbook, our Excel and Visio templates and access to our online resources for your investigations - no licensing fees to pay.
- 2.1 Continuing Education Units (CEU)

COMBINE C120 & C126 TO SAVE

CLICK | SCAN

INSTUCTOR-LED COURSE - SEE WEBSITE FOR LOCATIONS AND DETAILS

C122: Advanced Root Cause Analysis

ABOUT THIS COURSE

This advanced follow on course to our standard RCA course (C120) allows attendees to learn advanced techniques and gain additional insight from our experienced investigators. We solicit input from each of the participants in advance so we can address the key concerns and issues of each attendee.

You will participate in additional workshops related to timelines, cause and effect trees, interviewing, physical data analysis plans, near-miss definitions and reporting and trending. Attendees also receive an overview of how to structure an effective investigation program for their company, including how to define near misses, train others to recognize and report incidents, classify incidents for assigning the appropriate investigator(s) and trend data. You will take back to your company an example of a successful incident reporting and investigation program.

$1325
2 day
IN PERSON

$1325
3 days
VIRTUAL

Request Quote
2 days
PRIVATE

WHO SHOULD ATTEND?

- Those who need to know the importance of near-miss investigations, incident classification and data trending
- Those who need to be equipped to investigate serious, complex incidents
- Those who want additional workshops in areas such as causal factor charting, cause and effect trees, etc.

WHAT WILL I LEARN?

- Identify root causes (not just causal factors) with proven techniques
- Collect data through interviews and physical data analyses – numerous workshops are used to reinforce these topics
- Apply powerful techniques for causal factor identification, including causal factor charting, cause and effect trees, change analysis and timelines
- Use ABS Group's Root Cause Map™ to aid in root cause identification
- Avoid future incidents by developing appropriate recommendations to address causal factors and root causes
- Structure reports for optimum effectiveness
- Develop your data-trending process to identify systemic problem areas
- 1.4 Continuing Education Units (CEU)

CLICK | SCAN

INSTUCTOR-LED COURSE - SEE WEBSITE FOR LOCATIONS AND DETAILS

C126: Cultural Cause Analysis™

ABOUT THIS COURSE

Learn this next generation root cause analysis (RCA) method and tool to reactively assess and understand cultural issues that led to a major accident or series of incidents. The Cultural Cause Analysis™ (CCA) method deepens your ability to assess the underlying behaviors, actions and cultural issues that allowed management system weaknesses (root causes) to exist and led to equipment or human performance gaps that caused an incident(s).

The CCA approach was developed by the same authors of Root Cause Analysis: A Guide to Efficient and Effective Incident Investigations and the authors of the Center for Chemical Process Safety (CCPS) book, Guidelines for Risk Based Process Safety, which is recognized globally by high-hazard industries as the benchmark for process safety management (PSM) practices.

IN PERSON	VIRTUAL	PRIVATE
$1325	$1325	Request Quote
2 day	3 days	2 days

WHO SHOULD ATTEND?

- Anyone who needs to build on their incident investigation and root cause analysis skills
- Anyone searching to better identify underlying behaviors, actions and cultural issues driving performance issues
- Anyone who seeks to influence culture to drive enhanced performance

WHAT WILL I LEARN?

- How to investigate cultural drivers of serious and complex incidents
- How to identify cultural causes
- The importance of culture data trending
- To balance the return-on-investment for what type of causal analysis and when
- How Big Data supports the 12 Essential Features of Culture
- Come away from the course with your course notebook, access to ABS Group's extensive online resources, a Root Cause Map™ and a Cultural Cause Map™ for your company.
- 1.4 Continuing Education Units (CEU)

COMBINE C120 & C126 TO SAVE

CLICK | SCAN

INSTUCTOR-LED COURSE - SEE WEBSITE FOR LOCATIONS AND DETAILS

C140: Human Error Prevention

ABOUT THIS COURSE

Attendees learn how to examine and categorize specific human errors to identify the conditions and situations that contributed to mistakes. Attendees also discover why most human mistakes and human factors are caused by error-likely situations, which typically stem from weaknesses in the policies/practices that influence how organizations select, train, supervise, communicate with and design workplaces for workers. You will learn how to apply several human performance assessment tools, including error-likely situation checklist analyses, walkthrough analyses, guideword analyses, risk-reward analyses and ABC (antecedent-behavior-consequence) analysis. You will participate in several workshops so you will be able to apply these tools immediately.

We will also discuss the advantages and disadvantages of each approach so you will know when and where to apply each of these approaches. Finally, we will talk about how to integrate these tools and approaches into equipment designs, incident investigations, management of change and proactive analyses (e.g., PHAs, FMEAs).

IN PERSON
$1325
2 day

VIRTUAL
$1325
3 days

PRIVATE
Request Quote
2 days

WHO SHOULD ATTEND?

- Those seeking techniques to analyze facilities, systems and operations proactively and reactively
- Those seeking new prevention and mitigation approaches to solve human performance problems

WHAT WILL I LEARN?

- Learn the underlying reasons why human errors occur
- Learn how to correct human performance issues before they cause problems
- Learn how to assist others in your organization in dealing with human performance in your operations
- 1.4 Continuing Education Units (CEU)

COMBINE C120 & C140 TO SAVE

Facility Siting Courses

Our Facility Siting courses support organizations to understand the complex requirements of the API 752/753/756 regulations.

CLICK | SCAN

INSTUCTOR-LED COURSE - SEE WEBSITE FOR LOCATIONS AND DETAILS

C217: APIRP 752, 753, 756: Facility Siting Regulations and Compliance

ABOUT THIS COURSE

This course addresses the regulatory requirements for facility siting and gives an overview of the methods to satisfy the requirements. It specifically reviews the American Petroleum Institute (API) recommended practice (RP) documents 752 (Management of Hazards Associated with Location of Process Plant Permanent Buildings), 753 (Management of Hazards Associated with Location of Process Plant Portable Buildings) and 756 (Management of Hazards Associated with Location of Process Plant Tents). These documents give guidance for managing the risk from explosions, fires and toxic material releases to on-site personnel located in permanent or portable buildings. The course is a management-level overview.

IN PERSON	VIRTUAL	PRIVATE
$695	**$695**	**Request Quote**
1 day	**2 days**	**1 days**

WHO SHOULD ATTEND?

- Those who must perform facility siting assessment needs
- Those who must manage facility siting needs
- Those who must review facility siting needs

WHAT WILL I LEARN?

- Look specifically into API RP 752, 753 and 756 documents
- Gain an overview of the requirements and review the methods needed to satisfy them
- Learn what those results and recommendations could mean to your company
- 0.7 Continuing Education Units (CEU)

COMBINE C217 & C240 TO SAVE

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INSTUCTOR-LED COURSE - SEE WEBSITE FOR LOCATIONS AND DETAILS

C240: Facility Siting Hazards Analysis Techniques

ABOUT THIS COURSE

Learn what you need to do to satisfy the hazards analysis portion of OSHA facility siting requirements using either a consequence or risk-based approach. This technical course is designed for the process safety professional who performs facility siting studies. Students should bring a calculator or computer.

IN PERSON
$1325
2 days

VIRTUAL
$1325
3 days

PRIVATE
Request Quote
2 days

WHO SHOULD ATTEND?

- Those who must perform facility siting hazard analyses
- Those who review facility siting hazard analyses performed by others
- Those who supervise engineers that perform facility siting hazard analyse

WHAT WILL I LEARN?

- How to apply techniques for calculating the effects from fire and toxic hazards, including evaluating the vulnerability of personnel evacuations
- How to apply blast curve techniques for calculating vapor cloud explosions, pressure vessel bursts, boiling liquid expanding vapor explosions and chemical runaway or decomposition reactions
- Understand when more detailed analysis techniques such as Computational Fluid Dynamics may be of benefit
- Understand how blast loads are applied to buildings and their specific vulnerabilities
- Learn about different dynamic analysis methods including material properties and response criteria
- Understand non-structural and window glass fragment hazards including basic mitigation techniques
- 1.4 Continuing Education Units (CEU)

COMBINE C217 & C240 TO SAVE

ABS Quality Evaluations
An ABS Group Company

All of our ISO and Cybersecurity Maturity Model Certification Training is conducted by ABS Quality Evaluations, an ABS Group Company. ABS QE is a world-leading certification body that can work with your company to help you better assure business, systems, people and supply chain performance through management systems certification, verification, assessment and training.

qetraining@abs-qe.com

ISO and Cybersecurity Maturity Model Training

ABS QE's training and development solutions are designed to help organizations and individuals improve personal competence and skills. Our expert trainers are experienced practitioners in their field, and our training moves beyond theory, giving you valuable real-world insights. Our training uses the most current methods and management principles to help you integrate your management system principles into your operations. We incorporate hands-on exercises to implement and evaluate systems and offer foundation, overview, internal and lead auditor training.

Lead Auditor ISO Standard Courses

Our ISO standard courses are available to those seeking to become a lead auditor for ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, ISO 50001:2018 and IMS.

If you are seeking to audit quality, environmental, energy or occupational health and safety management systems, our courses help provide you with the practical and technical information you need to achieve and maintain your certification.

Exemplar Global
TPECS Certified

Certified ISO 9001:2015 Quality Management Systems (QMS) Lead Auditor

Virtual, Instuctor-Led Course - See website for full details

CLICK | SCAN

ABOUT THIS COURSE

This course is designed for those who plan and/or conduct audits of Quality Management Systems (QMS) under the ISO 9001:2015 standard. We use quality principles, concepts and tooling, based on the requirements of the ISO 9001:2015 standards and the audit and leadership requirements based on ISO 19011:2018, to deliver a practical and easy-to-understand training course. We give participants an extensive and systemic view of an audit and of an audit teams leadership process, with the chance to complete a mock audit and written test at the end of the course to demonstrate the knowledge learned.

WHO SHOULD ATTEND?

- Those planning and/or conducting audits of Quality Management Systems (QMS) under the ISO 9001:2015 standard

WHAT WILL I LEARN?

- The benefits of documented quality assurance systems
- Gain knowledge of the ISO 9001:2015 and ISO 19011:2018 requirements
- Understand the principles and methods of performing audits against ISO 9001:2015
- Learn how to prepare, perform and lead an audit as well as how to evaluate and report audit findings

Certified ISO 14001:2015 Environmental Management Systems (EMS) Lead Auditor

Virtual, Instuctor-Led Course - See website for full details

CLICK | SCAN

ABOUT THIS COURSE

This course is designed for those who plan and/or conduct audits of Environmental Management Systems (EMS) under the ISO 14001:2015 standard. We use the environmental concepts and tooling outlined in the requirements of the ISO 14001:2015 standards and the audit and leadership requirements based on ISO 19011:2018 to deliver a practical and easy-to-understand training course. We give participants an extensive and systemic view of an audit and of an audit teams leadership process, with the chance to complete a mock audit and written test at the end of the course to demonstrate the knowledge learned.

WHO SHOULD ATTEND?

- This course is designed for those who will be planning and/or conducting EMS audits against the international ISO 14001:2015 standard

WHAT WILL I LEARN?

- Understand the benefits of documented EMS
- Gain knowledge of the ISO 14001:2015 requirements
- Understand the principles and methods of performing audits against ISO 14001:2015
- Be able to prepare, perform and lead an audit against ISO 19011:2018
- Learn how to evaluate and report audit findings
- Guidance for applying for Lead Auditor certification

Certified ISO 45001:2018 Occupational Health and Safety (OH&S) Lead Auditor

Virtual, Instuctor-Led Course - See website for full details

CLICK | SCAN

ABOUT THIS COURSE

This training is for those Occupational Health and Safety (OH&S) professionals who wish to become auditors for the internationally accepted regulations relating to the ISO 45001:2018 standard. Based on the fundamentals, concepts and tools of the ISO 45001:2018 standard and the audit and leadership requirements of the ISO 19011:2018, we deliver a practical and easy-to-understand course, where participants gain a comprehensive and systemic view of an audit process and leadership of audit teams, with the chance to complete a mock audit and written test at the end of the course to demonstrate the knowledge learned.

WHO SHOULD ATTEND?

- OH&S professionals who wish to become auditors using ISO 45001:2018 standards

WHAT WILL I LEARN?

- Understand the requirements of the ISO 45001:2018 OH&S standard
- Meet the training requirements for OH&S auditor certification
- How to integrate OH&S audits with other management system audits
- An overview of lessons learned from experienced auditors

Certified ISO 50001:2018 Energy Management System (EnMS) Lead Auditor

Virtual, Instuctor-Led Course - See Website for full details

CLICK | SCAN

ABOUT THIS COURSE

This ISO 50001:2018 Lead Auditor course is a comprehensive training program designed to equip professionals with the knowledge and skills necessary to perform independent audits of an organization's Energy Management System (EnMS) against the requirements of the ISO 50001:2018 standard. We will cover the fundamentals of a successful energy management system, providing thorough understanding of the structure and requirements of the international standard. Participants will learn the audit process from beginning to end and will gain practical experience on how to perform EnMS audits. The course will be delivered by our experienced instructors and is designed to meet the needs of auditors, energy managers and sustainability professionals looking to build their competencies in this area.

WHO SHOULD ATTEND?

- Energy management professionals who wish to become auditors using ISO 50001:2018 standards

WHAT WILL I LEARN?

- Planning, preparing and coordination of an energy management system audit
- The concepts, structure and implementation of a successful energy management system
- Quality audits responsibilities and phases
- How to successfully identify risk and areas of non-conformity in an organization's energy management system

Certified Integrated Management Systems Lead Auditor

Virtual, Instuctor-Led Course - See website for full details

CLICK | SCAN

ABOUT THIS COURSE

This Integrated Management Systems (IMS) Lead Auditor course provides comprehensive training in the principles and practices of an IMS audit. Designed for professionals looking to develop their skills in auditing and assessing, this course covers the latest industry standards and guidelines for an IMS audit including ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018. Participants will learn about the audit process, including planning, preparation, conducting, reporting and follow-up. Upon its completion, participants will be equipped with the necessary knowledge and skills to lead an effective IMS audit and assessments, with the capability to provide insights and recommendations to organizations.

WHO SHOULD ATTEND?

- This course was developed for those who will be planning and/or driving Quality, Environment and Occupational Health and Safety audits

WHAT WILL I LEARN?

- The benefits of integrated Quality, Environment and Occupational Health and Safety systems
- Obtain knowledge of ISO 9001:2015, ISO14001:2015, 45001:2018 and ISO 19011:2018 requirements
- Understand the principles and methods of execution audits against ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018
- Learn how to prepare, execute and lead an audit, then how to evaluate and report audit findings

Internal Auditor ISO Standard Courses

Our ISO standard courses are available to those seeking to become an internal auditor for ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, ISO 50001:2018 and IMS.

If you are responsible for auditing or managing your organization's quality, environmental, energy or occupational health and safety management systems, our courses help provide you with the practical and technical information you need to achieve and maintain your certification.

ISO 9001:2015 Quality Management Systems (QMS) Internal Auditor

Virtual, Instuctor-Led Course - See website for full details

CLICK | SCAN

ABOUT THIS COURSE

This ISO 9001:2015 Internal Auditor course is designed for professionals involved in quality management and assurance, including those looking to learn more about the ISO 9001:2015 standard. This course will provide participants with the knowledge and skills needed to perform internal audits of an organization's Quality Management System (QMS) based on the ISO 9001:2015 requirements. This course involves interactive sessions and practical exercises to provide participants with hands-on experience in conducting internal audits.

WHO SHOULD ATTEND?

- Those responsible for conducting internal audits and implementation of Quality Management Systems and preparing audit reports

WHAT WILL I LEARN?

- The benefits of documented quality assurance systems
- Gain knowledge of the ISO 9001:2015 and ISO 19011:2018 requirements
- Understand the principles and methods of performing audits against ISO 9001:2015
- Learn how to prepare, perform and lead an audit as well as how to evaluate and report audit findings

ISO 14001:2015 Environmental Management Systems (EMS) Internal Auditor

Virtual, Instuctor-Led Course - See website for full details

CLICK | SCAN

ABOUT THIS COURSE

This ISO 14001:2015 Internal Auditor course is designed to provide participants with a comprehensive understanding of the ISO 14001:2015 Environmental Management Systems (EMS) standard and the skills necessary to perform a successful internal audit of an EMS. Through interactive training and practical training, participants will learn about the requirements of the ISO 14001:2015 standard and how to assess an organization's compliance against it. By the end of the course, participants will have the knowledge and skills necessary to serve as internal auditors for their organizations, helping to ensure that the organization's EMS is functioning effectively and efficiently.

WHO SHOULD ATTEND?

- Those that are involved with Environmental Management Systems, conducting internal audits and reporting on those audits

WHAT WILL I LEARN?

- Analysis and interpretation of ISO 14001:-2015 requirements
- How to evaluate, scope and implement Environmental Management Systems in your organization
- Strategic planning around environmental management goals

ISO 45001:2018 Occupational Health and Safety (OH&S) Internal Auditor

Virtual, Instuctor-Led Course - See website for full details

CLICK | SCAN

ABOUT THIS COURSE

This course will provide participants with the necessary training to conduct internal audits, prepare audit reports and notify areas of non-compliance to ISO 45001:2018. Through interactive and practical training, participants will learn about the requirements of the standard and how to plan, execute and report on an internal audit, as well as how to communicate the findings to management. Upon completion, participants will have the knowledge and skills necessary to serve as internal auditors for their organizations, helping to ensure their Occupational Health & Safety (OH&S) program is functioning effectively.

WHO SHOULD ATTEND?

- This course is intended for people involved with the Occupational Health and Safety Management Systems

WHAT WILL I LEARN?

- Risk assessment and the scope of an Occupational Health and Safety Management System
- How to plan, conduct and communicate the results of an audit
- How to identify and record any instances of noncompliance

ISO 50001:2018 Energy Management System (EnMS) Internal Auditor

Virtual, Instuctor-Led Course - See website for full details

CLICK | SCAN

ABOUT THIS COURSE

This course is for those responsible for managing their organization's Energy Management System (EnMS). Participants will learn about the requirements of the ISO 50001 standard and how to assess an organization's compliance against it. Participants will also learn how to plan, execute and report on an internal audit and communicate their findings.

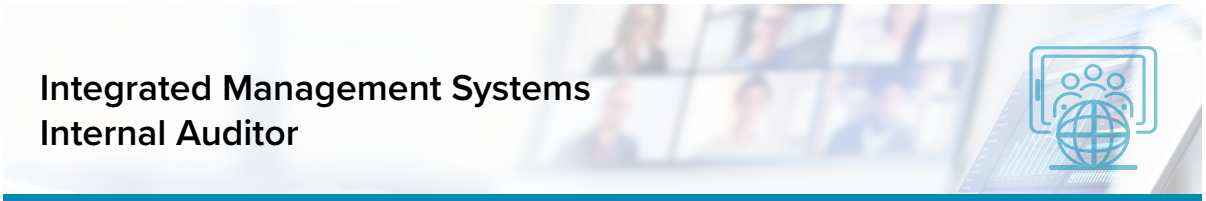
WHO SHOULD ATTEND?

- Professionals who are responsible for their organization's Energy Management System and sustainability initiatives

WHAT WILL I LEARN?

- The structure, history and implementation of a successful Energy Management System
- How to analyze, assess risk and identify areas for improvement in your organization's energy management system
- How to conduct internal audits and provide reports to stakeholders

Integrated Management Systems Internal Auditor



Virtual, Instuctor-Led Course - See website for full details

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ABOUT THIS COURSE

This course provides comprehensive training and practices of internal auditing for an Integrated Management System (IMS), focusing on Quality, Environmental and Occupational Health and Safety Management. Upon completion, participants will have an in-depth understanding of the requirements of the ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018 standards and how to conduct their audits and report findings of non-conformance. With our expert trainers and through hands-on training, participants will leave the course with the confidence and ability to conduct these internal audits and report their findings effectively.

WHO SHOULD ATTEND?

- This combo course is intended for anyone involved with the auditing or implementation of Quality, Environmental and Occupational Health and Safety Management Systems

WHAT WILL I LEARN?

- The history, structure and interpretation of ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018
- How to analyse, program and plan audits for ISO 9001:2015, ISO 14001: 2015 and ISO 45001:2018
- How to assess risk, scope and implement a successfully integrated Quality, Environmental and Occupational Health and Safety Management System

Cybersecurity Maturity Model Certification Courses

Our Cybersecurity Maturity Model Certification (CMMC) courses are available to those seeking to work with a Certified Third-Party Assessor Organization (C3PAO) or consult other organizations on CMMC.

If you are seeking to become a valuable asset for consultancy agencies, CMMC C3PAOs and organizations demanding CMMC-trained resources, our courses provide the practical and technical information you need to achieve and maintain your certification.

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INSTUCTOR-LED COURSE - SEE WEBSITE FOR LOCATIONS AND DETAILS

Certified CMMC Assessor (CCA) Training

ABOUT THIS COURSE

This course will provide in-depth knowledge of the CMMC model and the technical background required for an assessor to participate as part of a C3PAO assessment team and provide consultation to an organization seeking Level 2 CMMC assessment. Attendees will receive in-depth technical and administrative perspectives from provisional instructors who are also provisional assessors currently working through NIST SP 800-171 assessments. Upon completion of the course, attendees will be eligible to sit for the CCA exam.

WHO SHOULD ATTEND?

- Individuals interested in partcipating in CMMC assessments with a C3PAO or as a consultant
- Individuals or organizations seeking to offer CMMC implementation and assessment preperation services
- Individuals tasked with implementing the CMMC program for their organization
- Any individual seeking to become a certified assessor

WHAT WILL I LEARN?

- How to perform, manage and score assessment objectives in accordance with the established methods and requirements of NIST SP 800-171 DOD Assessment Methodology
- The ability to demonstrate an understanding of data classifications, governance and the CMMC model
- Understand the concepts and application of Controlled Unclassified Information (CUI), Intelectual Property (IP) and Personally Identifiable Information (PII)
- Understand the relationship of CMMC to:
- Risk Management Framework for Information Systems and Organizations (RMF) (SP 800-37 Revision 2)
- Security and Privacy Controls for Federal Information Systems and Organizations (SP 800-53 Revision 5)
- Managing Information Security Risk: Organization, Mission, and Information System View (SP 800-39)

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INSTUCTOR-LED COURSE - SEE WEBSITE FOR LOCATIONS AND DETAILS

Certified CMMC Professional (CCP) Training

ABOUT THIS COURSE

This course will provide an in-depth knowledge of the CMMC requirements and best prepares the individuals to implement controls, apply self assessments and the CMMC certification process. Successfully completing this course will allow organizations to internally provide CMMC consultancy and provide accurate self-assessments. Additionally, organizations will have the opportunity to implement required CMMC practices and conduct certification assessments. Upon completion of the course, attendees will be eligible to sit for the CCP exam.

WHO SHOULD ATTEND?

- Employees of organizations that require CMMC compliance and want to provide consultancy and self assessments to Level 1
- Individuals or organizations who seek to offer CMMC implementation and assessment preperations services
- Individuals seeking to become a Certified CMMC Professional (CCP)
- Certified Third-Party Organization (C3PAOs) providing assessor support or are interested in having in-house CMMC trained courses

WHAT WILL I LEARN?

- Understand the CMMC Assessment Process (CAP) Documentation to assist in representing or preparing an organization for formal assessment by a C3PAO
- Understand the history of CMMC 2.0 and applicable Defense Industrial Base (DIB) regulatory obligations
- Define, understand and implement methods to fulfill NIST 800-171, FAR clause 52.204-21, DFARS clause 252.204-7012 Assessment Objective within each control according to CMMC 2.0 documentation
- Acquire knowledge on the CMMC assessment methodology and process across all CMMC levels
- Acquire the ability to interpret the requirements of the CMMC model in the specific context

AB CYBER AB AUTHORIZED C3PAO

CA!CO LTP

Combined Courses

Our combined course option allows you to get the most out of our training solutions by providing coinciding industry courses that offer considerable savings.

Combined Courses

Our combined courses offer participants the chance to take two or more of our most popular courses, in the same week, for a discounted rate. These courses have been specially curated by our experts to support attendees in their professional development, and maximize their training and development.

The courses available within this offer are:

Codes	Combined Courses	Duration	Pricing
100/101	Process Safety Management Compliance and Compliance Auditing	5 days	$2295
110/110 D	Process Hazard Analysis Leader and Dust Hazards Analysis	5 days	$2845
111/113/114	Management of Change, Revalidating Process Hazard Analyses and Advanced PHA Leader	4 days	$4200
120/126	Root Cause Analysis, Incident Investigation and Cultural Cause Analysis	5 days	$2845
120/122	Root Cause Analysis, Incident Investigation and Advanced RCA	5 days	$2845
120/140	Root Cause Analysis, Incident Investigation and Human Error Prevention	5 days	$2845
200/210	Layer of Protection Analysis and Safety Integrity Level	4 days	$2295
217/240	API RP 752, 753 and 756: Facility Siting Regulations and Compliance and Facility Siting Hazards Analysis Techniques	3 days	$1745
113/114	Management of Change and Revalidating Process Hazard Analyses	3 days	$1745
104/105	Risk Management Program Compliance / Resubmitting EPA RM Plans	2 days	$1195

About ABS Group

ABS Group of Companies, Inc. (www.abs-group.com), through its operating subsidiaries, provides technical advisory and certification services to support the safety and reliability of high-performance assets and operations in the oil, gas and chemical, power generation, marine, offshore and government sectors, among others. Headquartered in Houston, Texas, ABS Group operates with more than 1,000 professionals globally. ABS Group is a subsidiary of ABS (www.eagle.org), a leading marine and offshore classification society.

Disclaimer: The information contained in this catalog is accurate as of the date of publication, however the details and pricing of the offerings listed herein remain subject to change at any time and may further vary depending on the number of attendees. Please refer to www.training.abs-group.com for the most up to date information concerning our current course offerings.

traininginfo@abs-group.com
enquiriesuk@abs-group.com

www.abs-group.com