

CHARTERED 
INSTITUTE OF PROFESSIONAL CERTIFICATIONS

CERTIFIED ENVIRONMENTAL RISK ASSESSMENT MANAGER™

CERA™

**Fully Accredited
By:**

Chartered Institute of
Professional Certifications

CPD
Certification Service



PROGRAM OVERVIEW



With intensifying global environmental regulations, **environmental risk assessments are now legally required in over 120 countries to ensure organizations evaluate ecological risks and meet sustainability standards before approving major projects.** Non-compliance can result in hefty fines, legal actions, and operational shutdowns. For instance, the European Union's Environmental Liability Directive imposes strict liability on businesses for environmental damage, compelling them to adopt preventive measures.

This Certified Environmental Risk Assessment Manager (CERA™) program is designed to provide you a complete understanding of environmental risk assessment, from **hazard identification to risk characterization, mitigation strategies and public engagement.** Through this program, you will gain technical knowledge and practical skills in **both qualitative and quantitative environmental risk assessment methodologies,** equipping you with the tools and techniques required to conduct robust risk assessments. You will also learn about **global environmental frameworks and key environmental laws** to ensure your organization remains compliant across jurisdictions.

Participants will also become proficient in **evaluating environmental exposures, modeling risk pathways, quantifying uncertainties, and recommending targeted risk management strategies.** Throughout this program, you will delve into a diverse array of critical topics, including risk evaluation and prioritization methodologies such as **HIRA, HAZOP, Bow Tie, and QRA,** empowering you to manage your organization's environmental risks so that it remains fully compliant with key regulations.

ACCREDITATIONS



4.8



4.6



PROGRAM OVERVIEW



Additionally, this program will help you integrate environmental risk assessment into your organization's overall **Environment Management Plan and international standards like ISO 14001** to ensure compliance with regulations enforced by international authorities.

Upon completing the program and passing the Chartered exam, you will attain the **Certified Environmental Risk Assessment Manager (CERA™)** designation. This credential will demonstrate your expertise in comprehensive **environmental risk assessment methodologies, effective mitigation strategies, and adept navigation of regulatory frameworks**. With the CERA™ designation, you will be at the forefront of environmental risk management, armed with extensive expertise in risk assessment methodologies guiding your organization towards a future of resilience and sustainability.

ACCREDITATIONS



4.8



4.6



KEY SKILLS YOU WILL GAIN

From This Program



**ERA TECHNIQUES AND TOOLS
ENVIRONMENTAL COMPLIANCE
DATA ANALYSIS AND INTERPRETATION
MONITORING AND REVIEW**

**STAKEHOLDER ENGAGEMENT AND
COMMUNICATION
SUSTAINABILITY AND SUSTAINABLE
DEVELOPMENT**

**RISK ASSESSMENT
ERA METHODOLOGY
ENVIRONMENTAL RISK CHARACTERIZATION
RISK PRIORITIZATION AND EVALUATION**

**ENVIRONMENTAL DECISION MAKING
QUALITY ASSURANCE AND DATA VALIDATION
ENVIRONMENTAL POLICY PLANNING
CLIMATE ADAPTATION STRATEGIES
ENVIRONMENTAL MANAGEMENT SYSTEMS (EMS)**

**ENVIRONMENTAL RISKS PREDICTION
ENVIRONMENTAL RISKS FORECASTING**

YOUR FACULTY DIRECTOR



Jakob Kupferberg

Jakob Kupferberg is a respected advocate for sustainability, net zero initiatives, and human rights. Mr. Kupferberg brings robust expertise as an alumnus of Al Gore's Climate Reality Leadership Corps and the University of Cambridge Institute for Sustainability Leadership. He specialized in climate displacement and relocation research in Pacific Island nations, presenting findings at academic conferences and continuing this work with the United Nations. Driven by a passion for knowledge, Mr. Kupferberg **has led training on human rights and climate change and earned qualifications in ISO 14001, carbon markets, ESG, greenwashing, and carbon accounting.** His diverse career spans the public, private, NGO, and intergovernmental organization sectors. Mr. Kupferberg has **spearheaded numerous high-impact sustainability projects, creating lasting social and environmental value and positive change for global communities.**

OUR PARTICIPANTS

Over 70% of FORTUNE 500 Companies Have Attended Our Accredited Programs Before



Goldman Sachs



SAMSUNG



ExxonMobil



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citi



IKEA



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HYUNDAI



Pfizer

Life is our life's work



Nestlé

PROGRAM AGENDA



MODULE 1 - ENVIRONMENTAL RISK ASSESSMENT (ERA)

- Introduction - Environmental Risk Assessment
- What is Environmental Risk Assessment (ERA)
- Key Terminologies
- Types of Environmental Risks
- Origin of Environmental Management
- ERA & EIA
- Key Learnings

MODULE 2 - RISK ASSESSMENT METHODOLOGIES

- Introduction - Risk Assessment Methodologies
- Risk Assessment Methodologies - Part 1
- Risk Assessment Methodologies - Part 2
- Risk Assessment Methodologies - Part 3 & 4
- ERA Steps and Dose Assessment Methodology
- Toxicology
- Environmental Contaminants
- Case Study

MODULE 3 - RISK MANAGEMENT STRATEGIES

- Introduction - Risk Management Strategies
- What is Risk Management?
- Risk Management Terminology
- Origin of Risk Management
- Risk Management Framework & Plan
- Risk Management Strategies
- Risk Management Roles and Review
- Risk Control Measures

MODULE 4 - ENVIRONMENTAL REGULATIONS AND STANDARDS

- Introduction - Environmental Regulations and Standards
- Overview of National and International Environmental Regulations and Standards
- International Environmental Law
- Environmental Law in UK, EU & After Brexit
- U.S Environmental Law & Climate Litigation
- Environmental Rights and Ecocide
- 5 Environmental Principles
- ERA Manager's Compliance Role
- Compliance Requirements (ISO 14001), Enforcement Authorities & Mechanisms
- Case Study

PROGRAM AGENDA



MODULE 5 - RISK CONTROL MEASURES

- Introduction - Risk Control Measures
- Types of Risk Control
- Identifying & Implementing Effective Risk Control Measures
- Environmental Risk Control & Assurance
- Risk Control Measures in Risk Management
- The COSO Framework
- Environmental Impairment Liability (EIL)

MODULE 6 - RISK EVALUATION AND PRIORITIZATION

- Introduction - Risk Evaluation and Prioritization
- Methods for Evaluating and Prioritizing Risks
- Hazard Identification and Risk Assessment (HIRA)
- What is the Checklist Method?
- Hazard and Operability (HAZOP) Study
- Quantitative Risk Assessment (QRA)
- What is the Bow Tie Analysis?
- Case Study – Fukushima Accident
- Recap

MODULE 7 - MONITORING AND REVIEW OF RISK MANAGEMENT PLANS

- Introduction - Monitoring and Review of Risk Management Plans
- Importance of Ongoing Monitoring and Review
- Data Collection and Analysis
- Incorporating Monitoring and Review into Business Planning and Decision Making Processes
- Strategies for Continuously Improving Risk Management Plans
- What is an Environmental Audit?
- Recap

MODULE 8 - DATA ANALYSIS AND INTERPRETATION FOR ENVIRONMENTAL RISK ASSESSMENT

- Introduction - Data Analysis and Interpretation for Environmental Risk Assessment
- Overview of Data Sources for Environmental Risk Assessment
- Types of Data Sources - Primary, Secondary, Tertiary
- Quality Assurance and Data Validation in Environmental Risk Assessment

PROGRAM AGENDA



- Data Management and Organization for Environmental Risk Assessment
- Techniques for Analyzing and Interpreting Environmental Data
- Recap

MODULE 9 - ENVIRONMENTAL RISKS IN SUSTAINABILITY PLANNING AND CLIMATE CHANGE ADAPTATION

- Introduction - Environmental Risks in Sustainability Planning and Climate Change Adaptation
- Environmental Risks and Climate Change
- Key Terminology
- Key Terminology (Continued)
- Understanding the Scope of Net Zero
- Environmental Risks Related to Net Zero
- Climate Adaptation
- Case Study – Kiribati
- Who Does Responsibility Fall Upon?
- Sustainability Reporting Frameworks
- Sustainability in the Built Environment - Interview with Paulina Lis
- Recap

MODULE 10 - APPLICATION OF RISK ASSESSMENT IN ENVIRONMENTAL POLICY AND DECISION MAKING

- Introduction - Application of Risk Assessment in Environmental Policy and Decision Making
- The Role of Risk Assessment in Environmental Policy and Decision Making
- Challenges and Best Practices for Applying Risk Assessment in Environmental Policy and Decision Making
- Environmental Risk Best Practice in Decision Making – A UK perspective
- Case Study – Fracking in the UK
- Recap

EXAMINATION

YOUR CHARTER DESIGNATION



Chartered Institute of Professional Certification's programs are unique as they provide you with professional charter designation and mark that can be used across your lifetime once you have completed our programs.

Upon completion of the program and successfully passing the Chartered exam, you will be awarded the prestigious **Certified Environmental Risk Assessment Manager (CERA™)** designation, which can be showcased in your resume, CV, and other professional credentials. This globally recognized and respected credential serves as a testament to your expertise in the field, granting you lifelong validity.

As a **CERA™** certificate holder, you will stand out as an authority in Environmental Risk Assessment, elevating your credibility and appeal to prospective employers or clients. Developed by the **Chartered Institute of Professional Certifications**, this industry-recognized and trademarked charter sets you apart in the competitive environmental risk assessment landscape. Additionally, the program's content has been independently accredited and certified by the **Continuing Professional Development (CPD) organization**, ensuring that it adheres to the highest standards of continuing professional development.

ABOUT US

49,525

Business Leaders Have Attained Their Chartered Certifications Since 2009

390

Certified and Fully Accredited Programs

87%

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CONTACT US TODAY

We Thank You for Your Ongoing Support
of Our Programs

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