Training: EC-Council

CRAGE - Certified Responsible AI Governance & Ethics

TRANING TERMS

2026-12-09 | 3 days | Warszawa / Virtual Classroom

TRAINING GOALS:

This credential validates your ability to operationalize governance aligned with NIST AI RMF and ISO/IEC 42001, helping enterprises scale AI with accountability. C|RAGE is a professional certification built to prepare professionals to govern AI systems responsibly across their life cycle: from policy and oversight to controls, compliance, and assurance.

C|RAGE equips you to:

- Establish governance structures, roles, and decision authority
- Apply ethical principles in operational, enforceable ways
- Manage regulatory obligations and audit readiness
- Assess AI risks and enforce accountability across design, deployment, and operation

C|RAGE helps:

- Validate you can lead AI governance across teams
- Verify your skills in building regulatory-compliant AI programs
- Prove your ability to execute AI testing, validation, and auditing

Compendium Centrum Edukacyjne Spółka z o.o.
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- Validate your expertise in AI risk assessment and third-party AI risk
- Demonstrate you can define enterprise AI strategy and accountability

Essential Skills You Will Gain with C|RAGE:

- Govern AI Frameworks
  - Build and implement enterprise AI governance frameworks.
- Assess AI Risk
  - Identify, measure, and mitigate AI-specific risks across the life cycle.
- Implement Responsible AI Controls
  - Put ethical, fair, transparent, and accountable practices into operations.
- Ensure Compliance Alignment
  - Map AI programs to NIST AI RMF, ISO/ IEC 42001, and applicable regulations.
- Lead AI Oversight Across Stakeholders
  - Coordinate governance across technical, legal, privacy, security, and risk teams.

Who is C|RAGE Ideal For:

- GRC & RISK MANAGEMENT
  - Head of Governance, Risk & Compliance (GRC)
  - GRC Manager
  - Director, Risk Management
  - Risk Manager
  - Head of Enterprise Risk Management (ERM)
  - Operational Risk Manager
- COMPLIANCE & REGULATORY
  - Director, Compliance
  - Compliance Manager
  - Director, Regulatory Affairs
  - Regulatory Compliance Manager
- PRIVACY & DATA GOVERNANCE
  - Chief Privacy Officer
  - Director of Privacy
  - Privacy Program Manager
  - Data Protection Officer (DPO)

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- Data Governance Manager
- Director, Data Governance

- AUDIT
  - Internal Audit Manager (Technology / IT)
  - Technology Audit Manager
  - Director, Internal Audit

Each participant in an authorized training CRAGE - Certified Responsible AI Governance & Ethics held in Compendium CE will receive a free CRAGE certification exam voucher.

CONSPECT:

- Module 1 - AI Foundations and Technology Ecosystem
  - Explain the foundational principles, evolution, and core components of Artificial Intelligence
    - Artificial Intelligence (AI)
    - Benefits and Limitations of AI
    - Evolution of AI
    - What is Machine Learning?
    - Machine Learning Algorithms
    - Limitations of Machine Learning
    - Neural Networks
    - Layers, Nodes, and Weights in Neural Networks
    - Deep Learning (DL)
    - How DL Overcomes Limitations of ML
    - Working of DL
    - DL Algorithms
    - Computer Vision
    - Natural Language Processing (NLP)
    - Why NLP is Important in AI
    - How NLP Processes Human Language
    - Processing Text for NLP Tasks
    - Key NLP Tasks
    - Sentiment Analysis in NLP
    - Text Summarization in NLP

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- Language Translation in NLP
- Challenges in NLP
- What is Generative AI?
- Traditional AI vs Generative AI
- Foundation Models of Generative AI
- Popular GenAI Tools
- Large Language Models (LLMs)
- Small vs. Large Language Models
- Key Terms for GenAI and Language Models
- Emerging Trends in AI
- Technological Advancements Driving AI
- The Road Ahead: Opportunities and Challenges

- Identify real-world applications of AI across industries and their transformative impact
  - AI Applications
- Understand the AI project lifecycle and the role of MLOps and DataOps in operationalizing AI solutions
  - Data Operations (DataOps) in AI Technology Stack
  - AI Development and Operations (MLOps) Lifecycle
  - AI Project Lifecycle Phases and Gates
  - Initiation and Concept Development
  - Data Collection and Preparation
  - Model Development and Experimentation
  - Model Training, Validation, and Testing
  - Deployment and Release Management
  - Monitoring and Performance Tracking
  - Maintenance and Model Retraining Schedules
  - Retirement and Decommissioning Procedures
  - Post-deployment Evaluation and Success Metrics
  - Version Management and Rollback Procedures
  - Integration of DataOps, MLOps, and DevSecOps in AI
- Describe the key layers, tools, and infrastructure that form the AI technology ecosystem
  - AI Technology Stack
  - Data Infrastructure and Pipelines
  - Model Architectures and Algorithms
  - Computing Resources and Infrastructure
  - APIs and Integration Layers

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- Monitoring and Observability Systems
- Version Control and Model Registries
- Cloud Computing and Infrastructure for AI Systems
- Edge vs. Cloud Deployment Considerations
- Data Science and Analytics as AI Enablers
- Scalability, Performance, and Computational Requirements
- Integration with Existing IT Systems and Legacy Infrastructure

- Module 2 - AI Concerns, Ethical Principles, and Responsible AI
  - Identify key concerns associated with AI and understand their implications
    - Concerns, Challenges, and Implications with AI
    - AI Concerns
    - AI Ethical Concern: Bias and Discrimination
    - AI Ethical Concern: Lack of Transparency
    - AI Ethical Concern: Accountability and Responsibility
    - AI Ethical Concern: Intellectual Property and Copyright Violations
    - Ethical Concerns Introduced by GenAI
    - Privacy and Security Concern: Privacy and Surveillance
    - Real-world Privacy and Data Protection Implications
    - Privacy and Security Concern: Phishing with AI-Generated Messages
    - Privacy and Security Concern: Scamming through AI-Generated Deepfakes
    - Societal Concern: Job Displacement
    - Societal Concern: Mental Health Impact
    - Societal Concern: Hallucinations
    - Societal Concern: Misinformation
    - Long-Term Concerns: Autonomous Weapons
    - Long-Term Concerns: Emergence of AGI
  - Explain the fundamental ethical principles that guide the responsible and fair development and use of AI systems
    - AI Ethics
  - Describe major global AI ethics standards and frameworks and understand how they inform ethical governance
    - OECD
    - UNESCO
    - IEEE
    - DoD AI Ethical Principles
  - Apply responsible AI usage practices to ensure safe, accountable, and privacy-aware interactions with AI tools

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- Responsible AI Usage
- Responsible AI Practices: Maintain Accountability in AI Usage
- Responsible AI Practices: Avoid Over-Reliance on AI
- Responsible AI Practices: Configure Privacy Settings in AI Tools
- Responsible AI Practices: Exercise Caution Sharing Personal Data with AI Tools
- Responsible AI Practices: Managing AI App Permissions Effectively
- Responsible AI Practices: Stay Updated on AI Policy Changes and News
- Responsible AI Practices: Regularly Update and Audit AI Tools

- Integrate responsible AI practices into the AI development lifecycle to design transparent, ethical, and trustworthy systems
  - Challenges in the Implementation of Responsible AI
  - Responsible AI Development Lifecycle
  - Responsible AI Practices in AI System Development
  - Essential Questionnaire for Designing and Developing Responsible AI Systems

- Module 3 - AI Strategy and Planning
  - Explain the purpose and importance of AI strategy and planning in guiding responsible and value-driven AI adoption
    - AI Strategy and Planning
    - The Need for an AI Strategy
    - AI Strategy and Planning Components
  - Develop the ability to define a clear AI vision and assess organizational readiness across data, technology, skills, and culture
    - Setting an AI Vision
    - Crafting and Communicating AI Vision
    - Aligning AI With Business Goals
    - Assessing Organizational Readiness
    - Data Maturity Assessment
    - ROI Assessment for AI
    - AI Maturity Models and Organizational Readiness Assessment
  - Learn to identify high-value AI opportunities and prioritize them using structured criteria to build an effective AI roadmap
    - Building Use Cases for AI Investment
    - Use Case Identification and Prioritization
    - Creating an AI Use-Case Portfolio
    - Creating an AI Roadmap
  - Understand how to modernize data ecosystems and AI infrastructure to support scalable, secure, and production-ready AI systems

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- Technology Selection and Evaluation
- Technology Selection and Evaluation Criteria
- Building Data Strategy for AI

- Design, run, and evaluate AI pilots to validate feasibility, performance, business value, and associated risks
  - Purpose of the Pilot Phase
  - Steps in Pilot Development
  - Pilot Evaluation Criteria
  - Pilot Outcomes and Decision Making
- Apply governance, ethical principles, and risk management practices to ensure responsible and compliant AI implementations
  - Building the AI Governance Framework
  - Managing AI Risks and Ensuring Compliance
- Learn strategies for scaling AI solutions organization-wide through standardized architecture, reusable assets, and coordinated governance
  - Scaling AI Solutions
  - Requirements for Successful Scaling
  - Scaling Strategy Across Multiple Departments
- Understand how to build AI skills, foster an AI-ready culture, and drive organizational change for successful AI adoption
  - The Importance of People and Culture in AI Adoption
  - Developing AI Skills and Competencies
  - Fostering an AI-Ready Culture
  - Change Management for AI Adoption
- Develop the capability to monitor AI performance, measure value, and implement continuous improvement for long-term sustainability
  - Performance Monitoring in AI Systems
  - Performance Measurement
  - Baseline Establishment and Benchmarking
  - Performance Monitoring and Metrics Tracking
  - Back Mechanisms and Improvement Loops
  - Feedback and Engagement with Stakeholders
  - Achieving Long-Term AI Sustainability
  - Measuring AI Success and Value Realization
- Learn to create realistic AI budgets, allocate resources effectively, and define timelines and milestones for structured execution
  - Planning AI Budget Allocation
  - Resource Allocation for AI Execution

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        - Timeline and Milestone Setting
- Module 4 - AI Governance and Frameworks
    - Understand the concept, scope, purpose, and foundational need for AI governance within organizations
        - What Is AI Governance?
        - AI Governance Hierarchy?
        - Why AI Governance is Needed
        - Scope of AI Governance
        - Traditional IT Governance vs. AI Governance
        - Governance vs. Management vs. Compliance
    - Understand how AI governance roles, committees, and operating structures collaborate to manage and oversee AI initiatives
        - AI Governance Operating Model
        - AI Governance Structure
        - AI Governance Meeting Frequency
    - Identify key governance roles across the AI lifecycle and understand their responsibilities in ensuring accountable AI operations
        - Key AI Governance Roles
        - Cross-Functional Collaboration Requirements
        - Chain of Responsibility and Escalation
    - Understand the policy framework and decision-making authority required to establish structured, controlled, and transparent AI governance
        - Governance Policies
        - Decision Rights Matrix
        - Define AI Policy Goals and Objectives
        - AI Policy Implementation Challenges
        - AI Governance Policies
        - Model Development Policies
        - AI Usage Policies
        - Bias Mitigation Policies
        - AI Lifecycle Management Policies
        - Policy on Ethics Review Boards and AI Audits
        - Continuous Review and Adaptation of Policies
    - Compare various AI governance models and understand how organizations choose and implement the right model for their ecosystem
        - AI Governance Models
        - Ethical AI Governance

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- Best Practices for AI Governance Models
- Understand major global AI governance frameworks and their principles to guide responsible and trustworthy AI adoption
  - OECD AI Principles for Governance
  - EU AI Act for Governing AI
  - The AIGA AI Governance Framework
  - IEEE Global Initiative on Ethics of Autonomous and Intelligent Systems
  - The Montreal Declaration of Responsible AI
  - Choose a Governance Framework to Guide your Process
- Understand how governance is applied across the AI model lifecycle to ensure transparency, quality, and controlled evolution
  - Model Lifecycle Governance
  - Problem Definition Governance
  - Design Governance
  - Data Preparation Governance
  - Training Governance
  - Evaluation Governance
  - Deployment Governance
  - Monitoring Governance
  - Change Control Governance
  - Retirement Governance
- Understand how managing AI assets ensures proper ownership, tracking, and governance across the AI lifecycle
  - The Role of Asset Management in Governance
  - AI Asset Management
  - Governance for AI Assets
  - Categories of AI Assets
  - Key Elements of AI Asset Management
  - AI Asset Inventory and Classification
  - Dataset Lifecycle Management
  - Model Lifecycle Management
  - Role of Model Cards in Asset Management
  - Metadata and Lineage Tracking
  - Performance Monitoring and Asset Health Tracking
  - Documentation, Versioning, and Auditability
  - Asset Versioning Best Practices
- Understand the role of documentation, transparency mechanisms, and stakeholder

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engagement in AI governance
    - Importance of Documentation in AI Governance
    - Governance Playbook
    - Stakeholder Engagement
    - Stakeholder Mapping
    - Emphasize Training and Awareness for All Stakeholders
    - Integrating Third-Party Oversight in AI Governance
- Understand the importance of human oversight in AI systems and how escalation, intervention, and review processes ensure trustworthy outcomes
    - Human Oversight
    - Human Oversight Escalation Framework
    - Decision Intervention Protocols
    - Human Review Checklists
    - Sample Human Review Checklist
    - Oversight Workflows
- Identify key tools and platforms that support AI governance through model tracking, documentation, and workflow automation
    - Governance Tools
    - Model Registry
    - Experiment Tracking Tools
    - Documentation Portals
    - Governance Automation Tools
- Understand how organizations implement AI governance frameworks and integrate them with broader technology governance mechanisms
    - Implementing AI Governance Frameworks
    - Integrating AI Governance
    - Integration of AI Governance with IoT, Blockchain, and 5G
    - Integration of AI Governance with Other Technologies
- Recognize key challenges in AI governance and apply best practices to strengthen governance maturity and effectiveness
    - Governance Challenges
    - Governance Best practices

- Module 5 - AI Regulatory Compliance
    - Explain the purpose of AI regulatory compliance and understand its organizational benefits and challenges
        - AI Compliance Management
        - Benefits and Challenges of AI Compliance
        - Components of an AI Compliance Program

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- Describe major global and regional AI regulations, including their requirements, risk classifications, and data protection obligations
  - EU AI Act and Regulatory Classifications
  - S. Regulatory Frameworks and Guidelines
  - Global Data Protection Regulations
  - Emerging Regulatory Trends by Region
- Identify key AI compliance requirements across critical sectors such as healthcare, finance, justice, telecommunications, education, and transportation
  - Need for Sector-Specific AI Regulations
  - Healthcare AI Compliance
  - Financial Services Compliance
  - Criminal Justice System Compliance
  - Telecommunications Compliance
  - Education Sector Compliance
  - Transportation/Autonomous Systems Compliance
- Understand how accountability, liability, and user rights shape legal duties and safeguard individuals in AI-driven systems
  - Why Accountability, Liability, and Rights Matter
  - Consumer Protection
  - Algorithmic Accountability
  - Intellectual Property Rights (IPR)
  - Liability and Responsibility Frameworks
  - Right to Explanation
  - Explainability and Interpretability Requirements
- Explain operational compliance expectations, including record-keeping, reporting, contractual requirements, labor considerations, and incident response obligations
  - Operational Compliance
  - Employment and Labor Law Considerations
  - Contractual Compliance Clauses
  - Record-keeping Requirements
  - Reporting and Notification Procedures
  - Legal Incident Response
  - Whistleblower Protections
- Apply continuous compliance practices such as audits, monitoring, regulatory change management, and third-party verification to maintain alignment with evolving AI regulations
  - Compliance Assessment and Gap Analysis
  - Maintain Audit Trails and Monitoring Systems

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        - Regulatory Change Management
        - Compliance Training and Certification
        - Third-party Compliance Verification
        - Remediation and Corrective Actions
        - AI Compliance Management Tools
    - Evaluate legal risks across the AI lifecycle and understand mechanisms such as insurance, indemnification, and dispute resolution for effective risk mitigation
        - Legal Risks Management
        - Legal Risks in AI Lifecycle
        - Role of Insurance in AI Risk Management
        - Role of Indemnification in Legal Risk Management
        - Best Practices for Implementing Insurance and Indemnification
        - Dispute Resolution
        - Litigation Preparedness
        - Legal Holds and e-Discovery Readiness
        - Best Practices for AI Legal Holds
        - AI Legal Governance Strategies
- Module 6 - AI Risk and Threat Management
    - Identify and explain the key risks, threats, attacks, and vulnerabilities associated with AI systems
        - Threat Landscape for AI Systems
        - Common Vulnerabilities in AI Systems
        - Adversarial Attacks
    - Understand and apply core AI risk assessment techniques for identifying, analyzing, and prioritizing AI-related risks
        - AI Risk Assessment
        - Risk Identification
        - Key Techniques for Risk Identification
        - Risk Identification Tools
        - Role of KPIs and KRAs in AI Risk Identification
        - Failure Modes and Effects Analysis (FMEA)
        - Monte Carlo Simulation
        - Bow-Tie Analysis
        - Risk Assessment Tools
        - Risk Scoring and Prioritization Methods
        - Likelihood and Impact Matrix
        - Quantitative vs. Qualitative Risk Analysis

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- Establishing Risk Thresholds and Tolerance Levels
- Continuous Risk Monitoring Systems
- Data Drift Detection Techniques
- Model Performance Tracking
- Anomaly Detection Techniques
- Risk Dashboards
- Reporting
- Escalation Procedures
- Risk Communication Strategies
- Risk Escalation Best Practices

- Describe major AI risk management frameworks and principles used to guide safe, compliant, and responsible AI deployment
  - AI Risk Management Frameworks
  - NIST AI Risk Management Framework (AI RMF)
  - AI Risk Frameworks: ISO/IEC 42001
  - AI Risk Frameworks: ISO/IEC 23894
  - OECD AI Principles for Risk Evaluation
- Explain how threat modeling and attack surface analysis support effective identification and mitigation of AI-specific threats
  - Threat Modeling
  - Attack Surface Analysis

- Module 7 - Third-Party AI Risk Management and Supply Chain Security
  - Understand the importance of third-party AI risks and how vendor dependencies can impact business operations, security, compliance, and organizational accountability.
    - Why Third-Party AI Risk Matters
    - Key Risks in Vendor Relationships
    - Organizational Responsibility for AI Systems
    - Types of Third-Party AI Vendors
    - Complex AI Supply Chains Increase Third-Party Risk
    - Business Impact of Poor Vendor Risk Management
  - Learn how to apply a structured TPRM framework to identify, assess, mitigate, and monitor risks associated with third-party AI vendors
    - Third-Party AI Risk Management (TPRM)
    - TPRM Framework
    - TPRM Tools
  - Understand regulatory obligations and legal responsibilities organizations must meet when procuring or deploying third-party AI systems

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- Regulations Affect Vendor Selection
- Organizations Obligations Under AI Regulations
- Vendor Compliance Alignment
- Legal Responsibility for Vendor AI Systems

- Learn the end-to-end procurement lifecycle for selecting, evaluating, contracting, and deploying AI vendor solutions
  - Stages of AI Procurement
  - Executive Role in Procurements
  - Key Questions Before Choosing a Vendor
  - Criteria for Shortlisting Vendors
- Develop the ability to evaluate vendor maturity, trustworthiness, technical capabilities, and risk posture through comprehensive due-diligence processes
  - Vendor Due Diligence
  - Building a Comprehensive Vendor Inventory
  - Vendor Role Mapping
  - Risk Profiling and Categorization
  - Evaluate Vendor Maturity to Mitigate AI Risks
  - Areas to Examine in Due Diligence
  - Technical Evaluation of Vendor AI
  - Data Handling Evaluation
  - Responsible AI and Ethics Evaluation
  - Legal and IP Evaluation
  - Vendor Performance Tracking Using KPIs and KRIs
  - KRAs and KPIs Best Practices
  - Red Flags Requiring Caution
  - Supplier Due Diligence Best Practices
- Understand how to create effective AI vendor contracts that include appropriate clauses for data rights, security, AI-specific risks, SLAs, and liability allocation
  - Contracts in AI Vendor Relationships
  - Data Rights and Control Clauses
  - Security and Privacy Clauses
  - AI-Specific Risk Clauses
  - High-Risk Use Case Clauses
  - Drafting SLAs and SLOs
  - Best Practices for Drafting SLAs and SLOs
  - Best Practices for AI Vendor Contracts
  - Liability Allocation and Risk Sharing in AI Contracts

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- Best Practices for Liability Allocation and Risk Sharing
- Learn how to continuously monitor AI vendors through KPIs, KRIs, audits, assurance activities, and structured lifecycle oversight mechanisms
  - Monitoring and Lifecycle Oversight in AI Vendor Risk Management
  - Continuous Monitoring Expectations
  - Executive Reporting Dashboard Items
  - Ongoing Review Requirements
  - Assurance Requirements
  - Independent Validation and Testing for Vendor Assurance
  - Best Practices for Vendor Assurance and Independent Validation
  - Incident Response Expectations
  - Responsible Offboarding and Exit Strategy
  - Vendor Renewal Decision-Making
  - Integration of Compliance, Performance, and Risk in Vendor Renewal
  - Aligning Vendor Oversight with Enterprise Risk
- Analyze real-world AI vendor failures to understand common gaps in governance, oversight, contracts, and risk monitoring
  - Case Study: Vendor Misused Customer Data
  - Case Study: Biased Hiring Algorithm
  - Case Study: Hallucinated Financial Analysis
  - Executive Scenario Challenge

- Module 8 - AI Security Architecture and Controls
  - Understand the core principles of AI security architecture and how they ensure the protection and resilience of AI systems throughout their lifecycle
    - AI Security Architecture
    - Why Security Architecture Matters in AI
    - AI Security Architecture Principles
    - Traditional Security V/s AI Security Architecture
    - Components of AI Security Architecture
    - Governance Practices for AI Security Architecture
    - Secure Software Development Lifecycles (SDLC)
    - Threat Modeling for AI Systems
    - AI Threat Modeling Frameworks
    - Threat Modeling Use Cases
    - Zero Trust Security
    - Infrastructure Hardening
    - Model Training

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- Inference Controls
- Continuous Testing
- Monitoring, Detection and Response
- Best Practices in AI Security Architecture

- Explore various frameworks used in AI security architecture, including their role in securing AI models, data, and infrastructure
  - AI Security Architecture Frameworks
  - Cloud Security Alliance (CSA) AI Security Framework
  - Artificial Intelligence Controls Matrix (AICM) Framework
  - OWASP AI Security Top Ten
- Learn the critical design considerations for building secure AI architectures that effectively address potential vulnerabilities and threats
  - Secure Design Patterns for AI
  - Designing Defense-in-Depth Strategies for AI
  - Designing Layered Approach for Secure AI Systems
  - Security by Design
- Identify and implement best practices in AI system development to ensure robust security measures from the design phase through deployment
  - Importance of Code Management
  - Code Management for Security in AI
  - Version Control
  - Version Control Best Practices
  - Repository Security and Access Controls
  - Secure Coding Best Practices
  - Secure Coding Standards
  - Code Review Processes
- Apply security best practices in AI model development to protect models from adversarial attacks, data poisoning, and other vulnerabilities
  - Model Security
  - Protecting Model Integrity
  - Tools for Protecting Model Integrity
  - Model Signing
  - Secure Model Serving
- Implement security controls and practices during the deployment phase of AI models to ensure safe operation and mitigate risks
  - Container Security
  - Container Security Controls

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- Memory and Resource Protection
- Hardening AI Runtime Environments
- Network Segmentation Controls
- Rate Limiting and DDoS Protection
- API Security for AI Systems
- Best Practices for API Security in AI Systems
- API Gateway Implementations

- Module 9 - Building Privacy, Trust, and Safety in AI Systems
  - Building Privacy, Trust, and Safety in AI Systems
  - Explain key privacy-enhancing techniques used to protect sensitive data in AI systems
    - Privacy by Design
    - Data Minimization
    - Differential Privacy
    - Decentralization
    - Data Protection: Encryption and Access Control
    - Data Anonymization and Pseudonymization
    - Data Retention and Deletion Policies
    - Secure Data Destruction Practices
    - Privacy-Preserving Analytics
  - Assess AI-related privacy risks and apply appropriate mitigation methods
    - Evaluating Privacy Risks with Privacy Impact Assessments
    - Evaluate Privacy Risks with Risk Assessment Framework
    - Reducing Privacy Risk with De-Identification Techniques
  - Implement transparency, trust-building, and safety controls to ensure reliable AI behavior
    - Incorporating Transparency with Consent Management
    - Ensuring Transparency with the Right to Explanation
    - Improving Transparency with Explainability Interfaces
    - Enhancing Transparency through Stakeholder Communication
    - Building Trust with User Feedback Loops
    - AI Trustworthiness and Safety Frameworks
    - Measuring and Scoring AI Trustworthiness
    - Maintaining Trust with Continuous Monitoring
    - Validating Trust with Verification Mechanisms
    - Assessing Trust with Third-Party Audits
    - Ensuring AI Safety with Testing and Red-Teaming
    - Defining Boundaries with AI Guardrails

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- Blocking Harmful Outputs with Content Filtering
- Building Resilient AI Systems with Failure Handling

- Design user-centric AI interactions that improve usability, clarity, and trust
  - Principles of User-Centric AI Design
  - Empowering Users through Education and Awareness
  - Addressing User Concerns with Complaint Mechanisms
- Apply ethical guidelines and fairness practices to ensure safe and aligned AI development
  - Documenting AI Systems with Transparency Reports
  - Guiding Ethical AI Development with Decision Frameworks
  - Ensuring Fairness with Audits and Bias Assessment
- Evaluate and monitor AI systems to maintain trust, compliance, and consistent performance
  - Certifying Ethical AI with Certification and Attestation
  - Validating Compliance with Certification
- Design structured, AI-focused incident response strategies and frameworks aligned with organizational and business impact needs
  - Understanding AI Incidents and Business Impact
  - AI-specific Incident Response
  - Limitations of Traditional IR in Managing AI Incidents
  - How AI Incident Response Supports Business Growth
  - Building an Effective AI-Specific IR Plan
  - Classifying AI Incidents for Effective Response
  - AI Incident Severity Levels
- Apply the AI incident response lifecycle to detect, contain, investigate, and recover from AI-related incidents effectively
  - Initial IR Actions
  - IR Lifecycle
  - Phase 1: Preparation
  - Phase 2: Detection
  - Phase 3: Analysis and Triage
  - Phase 4: Containment
  - Phase 5: Eradication
  - Phase 6: Recovery
  - AI-Specific IR Tools
  - AI-Specific IR Best Practices
- Evaluate and execute structured internal, external, regulatory, and customer communication strategies during AI incidents to maintain trust and compliance

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- Importance of Communication During an Incident
- Internal Escalation Protocols
- External Communication Protocols
- Regulatory Notification Requirements for AI Incidents
- Global Regulatory Notification Timelines
- Effective Media and Public Communication for AI Incidents
- Customer Notification Strategies for AI Incidents

- Assess AI incidents through post-incident reviews, metrics, and documentation to drive learning, accountability, and continuous improvement
  - Purpose of Post-Incident Review
  - Key Metrics for Post-Incident Review
  - Metrics to Measure IR Effectiveness
  - Post-Incident Documentation
  - AI Post-Incident Metrics and Analytics
  - Enhancing Training and Awareness After Incidents
  - Post-Incident Knowledge Base Update
  - Post-Incident Review Tools
- Develop AI-focused business continuity strategies by identifying critical AI functions, assessing business impact, and prioritizing recovery actions
  - AI Business Continuity
  - Key Components of an AI-Specific BC Strategy
  - Business Impact Analysis in AI-Specific BC
  - Identifying Critical Functions
  - Quantifying Impact
  - Recovery Prioritization
  - Recovery Tiers Matrix
  - Backup and Recovery Requirements
  - Backup and Recovery Best Practices
  - Redundancy and Failover Mechanisms
- Design AI-specific disaster recovery plans by defining recovery objectives, backup strategies, failover mechanisms, and supply chain dependencies
  - AI Disaster Recovery
  - DR Plan Dependencies
  - Defining Recovery Objectives for AI Systems
  - DR Site Options for AI Systems
  - Failover and Failback Procedures for AI Systems
  - Automation in AI-Specific DR

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- Backup Frequency and Retention in AI-Specific DR
- Data Synchronization in AI Recovery
- Ensuring AI Supply Chain Continuity
- AI-Specific DR Tools

- Evaluate and enhance AI incident response and recovery readiness through testing, simulations, training, and continuous optimization activities
  - DR Testing for AI Systems
  - Key Testing Types in AI DR
  - Tabletop Exercises for AI-Specific DR Drills
  - Training in DR for AI Systems
  - Optimization in DR for AI Systems
  - Continuous Improvement During Recovery

- Module 11 - AI Assurance, Testing, and Auditing
  - Establish AI assurance principles, mechanisms, and frameworks to support reliable, compliant, and accountable AI systems
    - AI Assurance
    - Key Components of AI Assurance
    - AI Assurance Mechanisms
    - Frameworks and Standards for AI Assurance
    - Case Studies: Successful AI Assurance Practices
  - Apply structured AI testing strategies to evaluate data, models, system behavior, performance, robustness, and security across the AI lifecycle
    - Testing in AI
    - Why AI Testing is Different?
    - AI Test Planning
    - Objectives of AI Test Strategy
    - Key Components of AI Test Planning
    - Defining the Testing Scope
    - Testing Strategy
    - Risk-Based AI Testing Strategies
    - Functional Testing
    - Types of Functional Testing
    - Test Case Development
    - Testing Methodologies
    - Model Performance Testing
    - Model Stability and Consistency Testing
    - Edge Case Testing

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- Testing Overfitting and Underfitting Models
- Testing Model Drift Over Time
- Specialized Testing
- User Acceptance Testing (UAT)
- UAT Process
- Challenges in AI UAT
- Best Practices for AI UAT
- Usability Testing
- Accessibility Testing
- User-Level Performance Testing
- Scenario and Workflow Testing
- Regression Testing
- Security and Robustness Testing
- Role of Red Teaming in AI Testing
- Best Practices for Security Testing for AI Systems
- Penetration Testing for AI Systems
- Monitoring and Continuous Testing
- AI Bug Bounty Programs
- Tools and Technologies for Testing AI Models

- Conduct pre-deployment and post-deployment validation and verification of AI systems
  - Validation of AI Systems
  - Data Validation Strategy
  - Cross-Validation and Holdout Testing
  - Generalization and Transfer Learning Validation
  - Verification of AI Systems
  - Model Behavior Verification Techniques
  - Data Pipeline Verification Techniques
  - Integration Verification Techniques
  - Deployment and Operational Verification Techniques
  - Non-Functional Verification Techniques
  - Best Practices for AI System Verification
- Assess AI systems for vulnerabilities, bias, fairness, explainability, and transparency, and manage remediation
  - Vulnerability Management for AI Systems
  - Best Practices for Vulnerability Management for AI Systems
  - AI Security Patch Management

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- Best Practices for AI Security Patch Management
- Bias and Fairness Assessment
- Explainability and Transparency Assessment

- Perform structured AI audits using risk-based methodologies, evidence collection, and governance-aligned reporting practices
  - AI Auditing
  - Key Components of AI Auditing
  - AI Auditing Process
  - Audit Planning and Scope Definition
  - Audit Sampling and Evidence Collection
  - Audit Evidence
  - Types of AI Audit Evidence
  - Collecting and Organizing Audit Evidence
  - Collecting and Organizing Data Evidence
  - Collecting and Organizing Model Evidence
  - Collecting and Organizing Algorithm Evidence
  - Collecting and Organizing Performance Evidence
  - Collecting and Organizing Compliance Evidence
  - Traceability in AI Audits
  - Traceability Matrix for AI Systems
  - Documentation Review AI Audits
  - Risk Evaluation and Controls Assessment
  - Audit Reporting and Recommendations
  - Types of Audit Reporting in AI System
  - Executive Reporting and Governance Communication
  - Remediation Tracking
  - Continuous Monitoring and Follow-Up
  - Types of AI Audits
  - Manual vs. Automated AI Auditing
  - External Audits vs. Internal Audits
  - Risk-Based Audit Methodology
  - Process-Oriented Auditing Methodology
  - Outcome-Focused Audit Methodology
  - Control-Based Audit Methodology
  - AI Auditing Frameworks
  - Tools for AI Auditing

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- AI Auditing Checklist
- Evaluate emerging technologies, regulatory developments, and automation trends shaping the future of AI assurance and oversight
  - Emerging Technologies in AI Assurance
  - Regulatory Developments
  - The Role of AI in Enhancing Assurance Processes

REQUIREMENTS:

Students should have at least two years of experience in governance, risk management, or corporate compliance and a foundational understanding of AI technologies. No technical programming skills are required, as the focus is on legal frameworks, ethical standards, and regulatory alignment.

Difficulty level



CERTIFICATE:

The participants will obtain certificates signed by EC-Council (course completion). This course will help prepare you also for the CRAGE certification exam.

CRAGE v1 exam details:

- Exam Code : 612-51
- Number of Questions : 100
- Duration : 3 hours
- Availability: ECC Exam Portal
- Passing Score: 70-80%
- Test Format : Multiple Choice Question (MCQs)

Each participant in an authorized training CRAGE - Certified Responsible AI Governance & Ethics held in Compendium CE will receive a free CRAGE certification exam voucher.

TRAINER:

Certified EC-Council Instructor (CEI)

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ADDITIONAL INFORMATION:

The training materials include official EC-Council electronic courseware, 180-day access to iLabs, and an exam voucher.

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