

REGISTRATION OPEN

Practical AI Education for Risk, Safety, Health, Ergonomics, and Human Factors Professionals

Build the computational judgment, data fluency, and governance capability to apply AI responsibly where decisions matter most.

Four live-online courses. Three learning levels. Stackable certificate pathways. AI-driven, AI-enabled, and assurance-led education for high-consequence work systems.

4

LIVE COURSES

56

INSTRUCTIONAL
HOURS

5.6

TOTAL CEUs

2027

PUBLIC OFFERINGS

[Explore the Academy](#)

Applied Intelligence for Safer, More Resilient Systems

2027 PROGRAM GUIDE

WHY RAAI ACADEMY

Beyond generic prompt engineering

Applied AI capability for professionals whose decisions affect people, operations, and organizational risk - built on computational, data-intensive, and assurance-led methods.

THE RAAI DUAL-LENS LEARNING MODEL

LENS 1

AI for Risk, Safety, Health, Ergonomics & Human Factors

Apply AI to strengthen:

- AI-driven hazard discovery and computational risk intelligence
- AI-enabled system safety, SIF pathways, and critical-control assurance
- Predictive safety analytics, anomaly detection, and incident learning
- Occupational health, ergonomics, human factors, and performance intelligence

LENS 2

Risk, Safety, Health, Ergonomics & Human Factors of AI

Identify and control risks from:

- AI-enabled decisions, automation, and algorithmic management
- Robotics, computer vision, intelligent sensors, and wearables
- Model bias, drift, uncertainty, privacy, cybersecurity, and misuse
- Automation bias, degraded human oversight, and loss of operational control

Use AI responsibly. Keep people accountable. Build safer, more resilient AI-enabled work systems.

Computational • Data-intensive • Evidence-grounded • Human-accountable

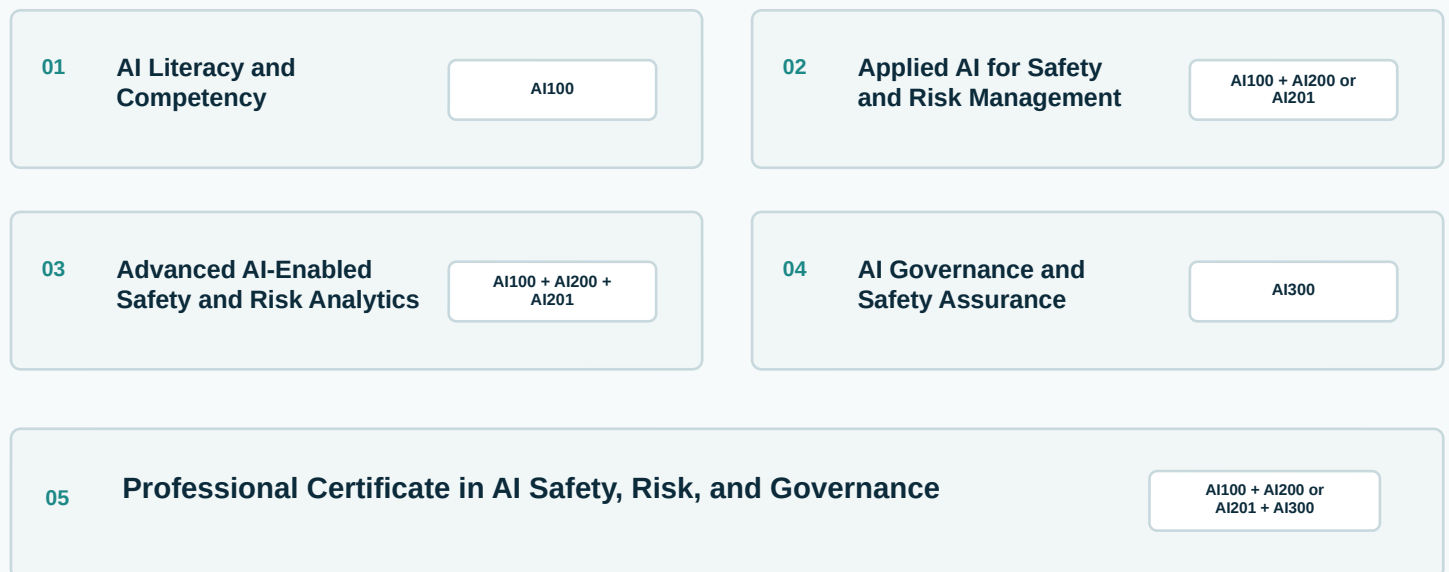
LEARNING ARCHITECTURE

From responsible AI foundations to deployment assurance

Four courses across three levels, connecting AI literacy, computational risk intelligence, predictive analytics, and lifecycle assurance through five stackable certificate pathways.



FIVE CERTIFICATE PATHWAYS



RAAI-AI100

AI Literacy and Competency for Safety, Health, Risk, and Ergonomics Professionals

Practical AI Use, Workplace Risk Assessment, and Evidence-Based Decision-Making

Build AI fluency for evidence-based, human-accountable decisions.

FIVE PRACTICAL OUTCOMES

- Evaluate whether AI use is appropriate for a task, tool, data set, and decision context.
- Assess how AI-enabled systems may introduce or modify safety, health, ergonomic, privacy, security, and equity risks.
- Evaluate AI data, model performance, uncertainty, bias, failure modes, and validation evidence.
- Design secure, bounded, and verifiable AI-assisted workflows with effective human oversight and professional controls.
- Operationalize responsible AI use through impact assessment, monitoring, change management, stop-use criteria, and defensible decision-making.

COURSE DETAILS

DATE

March 17, 2027

TIME

**8:00 AM-4:30 PM MST
(UTC-7)**

FORMAT

**Live online via
Zoom Workplace**

CREDIT

0.8 CEUs

EARLY BIRD

\$595

through February 15, 2027

PRACTICAL MATERIALS

- Digital participant guide
- AI use-case impact and control assessment tools
- Prompting, output-evaluation, and evidence-verification job aids
- Controlled workflow and monitoring templates
- Applied cases and Certificate of Completion

Instructors: Sam Zarei, Ph.D., CSP, FRAeS | Kamran Gholamizadeh, MSc.

CEUs and the Certificate of Completion require satisfaction of the published attendance, participation, and completion requirements.

[Register Now](#)

RAAI-AI200

AI-Enabled Hazard and Risk Management

SIF Prevention, Risk Intelligence, and Critical Control Assurance

Convert complex EHS data into defensible risk intelligence.

FIVE PRACTICAL OUTCOMES

- Build AI-ready work-system and operational data structures for hazard identification and risk intelligence.
- Apply AI-enabled hazard identification and SIF risk analysis to distinguish evidence, assumptions, routine risk, and high-consequence exposure.
- Model accident pathways and critical-control dependencies using AI-assisted Bow-Tie, STPA, and systems-based risk analysis.
- Design and prioritize AI-enabled risk interventions and critical-control assurance strategies using multi-criteria, uncertainty, and barrier-performance analysis.
- Validate and operationalize AI-generated risk intelligence through evidence traceability, hallucination checks, assurance records, and integration into EHS and operational decision systems.

PRACTICAL MATERIALS

- Work-system and JSA/JHA analysis templates
- AI-driven hazard and evidence-review tools
- Quantitative risk, sensitivity, and intervention worksheets
- Bow-Tie, STPA, and critical-control assurance templates
- Decision-ready outputs and Certificate of Completion

Instructors: Sam Zarei, Ph.D., CSP, FRAeS | Kamran Gholamizadeh, MSc.

CEUs and the Certificate of Completion require satisfaction of the published attendance, participation, and completion requirements.

COURSE DETAILS

DATE

May 12-13, 2027

TIME

8:00 AM-4:30 PM MST
(UTC-7), each day

FORMAT

Live online via
Zoom Workplace

CREDIT

1.6 CEUs

EARLY BIRD

\$1,095

through April 12, 2027

[Register Now](#)

RAAI-AI201

AI-Enabled Predictive Safety and Risk Analytics

Leading Indicators, Causal Analysis, and Organizational Learning

Build predictive risk intelligence for prevention - not another lagging dashboard.

FIVE PRACTICAL OUTCOMES

- Build trustworthy, AI-ready data pipelines for safety and risk analytics.
- Design AI-enabled leading-indicator and predictive risk intelligence systems.
- Validate, monitor, and govern AI and machine-learning models for safety-critical decision support.
- Apply AI-assisted causal analysis and natural-language processing to incident and organizational learning.
- Operationalize AI-generated risk intelligence through decision thresholds, intervention protocols, model governance, and continuous organizational learning.

PRACTICAL MATERIALS

- Leading-indicator and SIF development framework
- Data-quality and model-validity scorecard
- Causal-analysis and text-analytics templates
- Dashboard, model-card, and threshold tools
- Applied cases and Certificate of Completion

Instructors: Sam Zarei, Ph.D., CSP, FRAeS | Kamran Gholamizadeh, MSc.

CEUs and the Certificate of Completion require satisfaction of the published attendance, participation, and completion requirements.

COURSE DETAILS

DATE

June 30-July 1, 2027

TIME

**8:00 AM-4:30 PM MST
(UTC-7), each day**

FORMAT

**Live online via
Zoom Workplace**

CREDIT

1.6 CEUs

EARLY BIRD

\$1,095

through May 31, 2027

[Register Now](#)

RAAI-AI300

AI Governance and Assurance for Safety Professionals

Managing AI Risk, Safety Assurance, and Human Oversight in AI-Enabled Operations

Build defensible governance and assurance for AI-enabled operations.

FIVE PRACTICAL OUTCOMES

- Classify AI-enabled use cases using risk-based criteria for safety impact, uncertainty, autonomy, and operational consequence.
- Design AI governance frameworks that define accountability, approval authority, human oversight, escalation, and decision rights.
- Translate AI risk into verification, validation, safety-assurance, deployment, and residual-risk requirements.
- Monitor and audit AI-enabled operations for model limitations, drift, data quality, cybersecurity, privacy, vendor risk, control effectiveness, and governance performance.
- Operationalize AI assurance through monitoring thresholds, stop-use criteria, revalidation, incident response, CAPA, change control, and executive risk communication.

PRACTICAL MATERIALS

- AI criticality and governance templates
- Human oversight and decision-authority tools
- V&V, validation, and assurance-evidence templates
- Vendor, monitoring, drift, incident, audit, and CAPA checklists
- Executive-ready outputs and Certificate of Completion

Instructors: Sam Zarei, Ph.D., CSP, FRAeS | Kamran Gholamizadeh, MSc.

CEUs and the Certificate of Completion require satisfaction of the published attendance, participation, and completion requirements.

COURSE DETAILS

DATE

October 14-15, 2027

TIME

**8:00 AM-4:30 PM MST
(UTC-7), each day**

FORMAT

**Live online via
Zoom Workplace**

CREDIT

1.6 CEUs

EARLY BIRD

\$1,295

through September 14, 2027

[Register Now](#)

EXPERT-LED DELIVERY

Research-grounded. Computational. Application-led. Human-accountable.

Every course integrates safety science, risk engineering, advanced analytics, human factors, and responsible AI governance and assurance.

Sam Zarei, Ph.D., CSP, FRAeS



Associate Professor of Safety
Science | CEO,
Risk Analytics AI (RAAI)

sam@raaihq.com

AI-enabled safety and risk intelligence, system safety, human factors, resilience, and responsible AI governance and assurance

15+ years of academic and industry experience across aviation, aerospace, energy, and manufacturing. Educated, lived, and worked in the United States, Canada, and Iran, with expertise in EHS/HSE, system safety, risk engineering, and responsible AI integration.

Kamran Gholamizadeh, MSc



AI & Risk Analytics Specialist | HSEQ
Manager |
CRIO, Risk Analytics AI (RAAI)

Predictive safety analytics, computational risk modeling, leading indicators, critical-control assurance, and AI-enabled risk intelligence

Integrates safety, risk and reliability engineering, organizational learning, and EHS/HSE management into AI-enabled predictive analytics.

APPLICATION-HEAVY LEARNING FOR WORKING PROFESSIONALS

60-70%

Labs, scenarios, professional artifacts, and expert feedback.

PRACTITIONER LANE

No-code and low-code tools, spreadsheets, business intelligence, approved AI platforms, and vendor applications.

ANALYST LANE

Optional Python, APIs, data pipelines, model evaluation, and advanced analytics for deeper technical implementation.

RAAI operates independently and is not affiliated with, sponsored by, or endorsed by Embry-Riddle Aeronautical University.

[View Instructor Profiles](#)

2027 PUBLIC OFFERINGS

Choose your next AI capability

All prices are in USD. All public courses are live online through Zoom Workplace and scheduled in MST (UTC-7).

Course	Date	Hours / CEUs	Early Bird	Standard
RAAI-AI100 AI Literacy and Competency	March 17, 2027	8h 0.8 CEUs	\$595 through February 15, 2027	\$695
RAAI-AI200 AI-Enabled Hazard and Risk Management	May 12-13, 2027	16h 1.6 CEUs	\$1,095 through April 12, 2027	\$1,295
RAAI-AI201 Predictive Safety and Risk Analytics	June 30-July 1, 2027	16h 1.6 CEUs	\$1,095 through May 31, 2027	\$1,295
RAAI-AI300 AI Governance and Assurance	October 14-15, 2027	16h 1.6 CEUs	\$1,295 through September 14, 2027	\$1,495

PUBLIC REGISTRATION

Choose the course that matches your immediate capability gap.

Each course page includes full outcomes, materials, CEUs, participant terms, and secure Stripe-hosted registration.

[View All Courses](#)

ORGANIZATIONS

Build AI-driven risk intelligence and governed capability across your team.

Ask about private instructor-led cohorts, organizational delivery, and applied cases aligned with your industry and operating context.

[Request a Private Cohort](#)
academy@raaihq.com

CEUs and Certificates of Completion require satisfaction of the published attendance, participation, and completion requirements for each course.