APPLIED TECHNOLOGY ACADEMY

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IntelliCademy AI Transformation Leader

IntelliCademy Authorized Training · Applied Technology Academy

AI Transformation Leader is an advanced four-day course and certification for senior leaders, program managers, transformation officers, innovation leads and decision-makers responsible for guiding AI adoption across complex mission and enterprise environments. Aligned to the DoD Cyber Workforce Framework work roles of AI Innovation Leader (902) and AI Adoption Specialist (753), it validates the knowledge, skills and abilities required to define AI vision and policy, establish governance and oversight, and drive responsible, scalable adoption across cyber, intelligence and broader mission operations.

LEVEL	DURATION	DELIVERY
Advanced	**4 Days**	**Instructor-led**

Course Overview

- 32 hours of instruction across four days, delivered by IntelliGenesis instructors.
- Aligned to DCWF work roles AI Innovation Leader (902) and AI Adoption Specialist (753).
- Progresses from strategic foundations to applied governance and operational planning.
- Discussion-based learning, scenario analysis, planning exercises and decision-making activities.

Course Outline

- **Day 1: AI and Machine Learning Foundations**
- **Module 0: Course Introduction**
  - Course objectives, agenda, usage policy and a note on reference frameworks.
  - Course scenario introduction - participants may also bring a scenario of their own.
- **Module 1.1: Basics of Data**
  - What data is, data types and storage, volume versus value, population versus sample, and human context in data.
- **Module 1.2: The AI/ML Lifecycle**
  - Key definitions, roles and skills, the lifecycle end to end, and the train/test split.
- **Module 1.3: Machine Learning**
  - When to use machine learning; supervised learning, regression and classification; unsupervised learning.
  - From prediction to action, with a machine-learning scenario.
- **Module 1.4: Deep Learning and Artificial Intelligence**
  - Neural networks and basic architecture; prediction versus generation.
  - Natural language processing, large language models, prompt development and engineering.

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  - AI versus AI systems versus agentic AI, retrieval-augmented generation, reinforcement learning, AI by capability.
- **Module 1.5: Monitoring, Deployment and Evaluation**
  - Model-to-mission impact, defining success, establishing baselines, and performance metrics that matter.
  - Evaluating beyond accuracy; production deployment, scope and integration into operational ecosystems.
  - Drift, updating strategies, rollout methods, version control, accountability and feedback loops.
- **Day 2: Cybersecurity, Management and Stakeholders**
- **Module 2: Networking and Cybersecurity Fundamentals**
  - Collaboration with cybersecurity teams, the CIA triad, authentication and authorization, securing APIs.
  - Access control and secrets management, secure coding practices, encryption and secure logging.
  - Data privacy and compliance, anomaly detection, and adversarial AI/ML.
  - Common threats - data poisoning, SQL injection, phishing and malware.
  - Networking for AI/ML, and cloud and model deployment basics.
- **Module 3.1: The AI Leader's Role**
  - Mission, strategy to execution, the balanced scorecard, and how leaders think about AI.
  - Turning problems into programs and thinking beyond today.
- **Module 3.2: Stakeholder Analysis and Engagement**
  - Stakeholders, the power-interest matrix, engagement strategies, the stakeholder register and RACI.
  - Bridging the gap: synchronization, consultation, continuity, communication and the SCQA framework.
- **Module 3.3: Workforce Leadership and Team Management**
  - Multidisciplinary teams and the roles to coordinate, workforce structures and RACI.
  - Recruitment and retention challenges, and building talent internally.
- **Module 3.4: Resource and Program Management**
  - Resources and demand, sustaining support, making the numbers work, optimizing limited resources.
  - Leadership during deployment, and turning AI ideas into funded initiatives.
- **Day 3: Governance, Ethics, Policy and Risk**
- **Module 4.1: Ethics**
  - Ethical concerns and common ethical pillars, how to implement them, ethical frameworks and boundaries.
- **Module 4.2: Regulations**

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  - What is legal, regulation focus, AI regulation in operations and in DoD operations.
  - Statutory foundations, legal constraints and triggers for legal review.
  - PHI, PII and sensitive data; data use and reuse; regulatory red flags.
- **Module 4.3: Policies**
  - Where policy comes from and how it lands in operations; the DoD responsible AI policy landscape.
  - America's AI Action Plan and the DoW AI Strategy.
  - Common policy, acquisition and deployment requirements; compliance and operational consequences.
- **Module 4.4: Governance**
  - Governance bodies and charters, governance across the lifecycle, and evidence.
  - Reporting and escalation methods, intervention and control authority, auditability and defensible decisions.
- **Module 5: Risk Management**
  - AI/ML risk assessments: identifying and evaluating risks, qualitative and quantitative methods.
  - Mitigating risks, monitoring, and risk assessment frameworks and tools.
- **Day 4: Adoption, Advocacy and Education**
- **Module 6.1: Human-Centered AI Systems**
  - Socio-technical systems, human-centered design, human factors and their fundamental concepts.
  - User experience and UX design for AI systems.
- **Module 6.2: Training, Awareness and Education**
  - Instructional methods and design frameworks; the OPM training needs assessment and evaluation field guide.
  - Common mistakes in AI training.
- **Module 6.3: Motivation and Culture**
  - The psychology of AI adoption and of motivation, motivational frameworks, and building a safe, innovative culture.
- **Module 6.4: AI Strategy**
  - Purpose and common pitfalls, how to build an AI strategy, and turning insights into strategy.
- **Module 6.5: Change Management**
  - Why change fails, change management frameworks, AI adoption, measuring adoption and adoption signals.
  - Course conclusion.

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Prerequisites

- Experience in leadership, management, program oversight, innovation, policy, operations or transformation-related roles.
- Familiarity with organisational decision making, strategic planning or enterprise initiatives.
- Basic understanding of emerging AI capabilities and their potential application.
- Ability to engage with policy, governance, risk and performance discussions at an organisational level.
- A laptop or device capable of accessing course materials and completing practical exercises.

Who Should Attend

- Senior leaders and executives responsible for modernisation and transformation.
- Program and project managers overseeing AI-enabled initiatives.
- Innovation leaders and digital transformation personnel.
- Policy, strategy and governance professionals.
- Operational leaders integrating AI into mission environments.
- Change agents and decision-makers shaping enterprise AI adoption.

What You'll Learn

By the end of this course, participants will be able to:

- align AI adoption with mission priorities and strategic objectives
- establish governance and risk oversight structures that institutionalize responsible AI principles
- guide policies, funding strategies and acquisition models for sustainable, accountable AI operations
- shape workforce strategies and capability frameworks that enable scalable AI innovation
- define performance criteria and executive reporting that monitor AI value, effectiveness and trustworthiness
- provide executive oversight aligned to organizational risk tolerance, security standards and ethics
- advise senior decision-makers with evidence-based recommendations balancing innovation, risk and policy

Hands-On Work

- Four days of instructor-led delivery built around a running scenario, with discussion and
- exercises throughout - participants may work the supplied scenario or one from their own
- organization.
- Each module closes with a timed quiz: 15 minutes, two attempts, 80% to pass.
- The course concludes with a review and course survey.

Next Steps

Pairs with the IntelliCademy AI/ML Specialist bootcamp for the technical practitioner track.

Ready to enroll? Call 800.674.3550 or email Info@AppliedTechAc.com — private team cohorts, GSA MAS purchasing, military credentialing funding, VA GI Bill and VR&E and student financing available.