COURSE SYLLABUS

AI For Global Supply Chain Risk & Geopolitics

This course prepares government leaders and acquisition professionals to navigate global supply chain disruption, geopolitical risk, and the rapid adoption of artificial intelligence across federal procurement and logistics. Participants leave with a practical 90-day action plan for purchasing, contracts, products, and delivery oversight in the lead-up to 2027.

Group classes in Live Online and onsite training is available for this course. For more information, email onsite@graduateschool.edu or visit: https://www.graduateschool.edu/courses/ai-for-global-supply-chain-risk-geopolitics

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Course Outline

Opening Session: The New Era of Government Logistics

- Examine why government logistics is under increasing global pressure.
- Recognize the end of low-cost, high-availability supply chain conditions.
- Identify the implications of foreign manufacturing dependency for federal operations.
- Discuss national resilience priorities and the rising emphasis on domestic sourcing.
- Frame 2027 as a turning point for government purchasing, contracting, and oversight.

Module 1: Global Supply Chain Changes Impacting Government Operations

- Analyze the effects of political instability, tariffs, sanctions, and trade retaliation on federal supply chains.
- Identify sources of supply chain fragility, including port congestion, container shortages, and critical raw material scarcity.
- Examine the operational impacts on agencies, including delays, shortages, budget pressures, and contractor non-performance.
- Apply supply chain dependency concepts to agency purchases through scenario-based exercises.

Module 2: The AI Revolution in Government Logistics and Procurement

- Explore the use of artificial intelligence in purchasing, including bid analysis, supplier scoring, fraud detection, and contract review.
- Examine AI applications in logistics, including demand forecasting, route optimization, inventory prediction, and asset tracking.
- Identify the risks associated with AI use, including data quality issues, bias, cybersecurity exposure, and overreliance on automation.
- Recognize the human oversight, governance, audit, and ethical controls required for responsible AI adoption.

Module 3: What 2027 Will Bring — New Oversight Expectations

- Anticipate emerging purchasing oversight expectations, including domestic preference enforcement and supplier transparency.
- Examine evolving contracts oversight expectations, including AI clauses, cybersecurity evidence, and vendor risk scoring.
- Identify product oversight changes, including counterfeit prevention, traceability mandates, and forced labor screening.

- Discuss delivery oversight changes, including real-time visibility, on-time metrics, and emergency continuity requirements.

Module 4: Government Procurement in a High-Risk World

- Identify categories of supplier risk, including financial distress, geopolitical exposure, cyber maturity, and single-source dependency.
- Apply resilience strategies such as dual sourcing, strategic stockpiles, regional suppliers, and improved vendor monitoring.
- Analyze a case-based scenario to determine how award decisions should evolve under 2027 conditions.
- Evaluate supplier portfolios using risk-informed decision criteria.

Module 5: Future Skills Government Teams Need by 2027

- Identify the procurement skills required for risk-based sourcing, contract analytics, and AI-supported decision-making.
- Recognize the logistics skills needed for scenario planning, supplier mapping, resilience planning, and dashboard use.
- Examine the leadership skills required for faster decision-making, strategic sourcing, and technology risk understanding.
- Discuss organizational implications for talent, training, and workforce development.

Module 6: Executive Action Plan — Preparing Now for 2027

- Develop 90-day actions to assess foreign dependency exposure and modernize sourcing criteria.
- Identify contract modifications needed to address AI usage, delivery requirements, and penalty enforcement.
- Establish product authenticity and traceability expectations for suppliers.
- Build delivery contingency, carrier monitoring, and supplier risk-tracking plans.
- Synthesize key takeaways into a personal executive action plan for organizational implementation.