



CDAO

Talent and Workforce

FY 2023 Training Catalog

Updated 12.21.2022

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Training Schedule



In –Person Senior Leader Training	FY 2023								
	QTR2			QTR3			QTR4		
	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept
Leading Data and AI -Enabled Organizations (formerly Lead AI GOFO) General and Flag Officers, Senior Executive Service, Equivalent ranks	MIT Sloan* Jan 30-Feb 1		MIT Sloan* Mar 15-17	JHU Apr 12-13 (30) MIT Sloan* Apr 3-5		JHU TBD	MIT Sloan* Jul 31-Aug 2		JHU TBD
Leading Data and AI -Enabled Organizations (formerly Lead AI Senior) O-6, E9, GS-15 Equivalentents		NPS Feb 13-15 (40)			JHU May 23-24 (40)			JHU TBD	

Virtual Training

Coding Boot Camp No rank requirements						TBD			
Data & AI Basics (formerly AI101) No rank requirements	MIT Horizon								

Provider/Platform Legend:

*MIT Sloan: Cambridge, MA (Registration & eligibility: radovan@mit.edu)
 MIT Horizon: [Online content provider](#)
 JHU: John Hopkins University, Laurel, MD
 NPS: Naval Post Graduate School and Stanford, Monterey, CA and Palo Alto, CA

The Chief Digital and Artificial Intelligence Office (CDAO) Talent and Workforce Division develops, directs and coordinates digital, data analytic and AI training opportunities across the Department of Defense.

Leading Data & AI-Enabled Organizations (formerly Lead AI)



Who Should Take this Training

There are two courses named 'Leading Data and AI-Enabled Organizations' with different target audiences. Executive - General and Flag Officer level personnel and Senior Executive Service Civilian equivalents and *Senior* - O-6, E-9 and GS-15 equivalents.

Course Summary

Participants will cover national security implications of AI, building an AI-ready enterprise and workforce, acquisition and infrastructure requirements, and examine the future of AI. Case studies consider the lifecycle of data and AI Operations with the DoD context.

Learning Objectives

Both senior leader courses have the same learning outcomes.

- Explain the differences between machine learning, computer vision, and natural language processing
- Evaluate the impact of obtaining and cleaning data on the time, cost and development of AI project impact
- Discuss change management and adaptive leadership to prepare the workforce for AI adoption
- Apply benefits and limitations of AI/ML to evaluate current and future use cases in the DoD
- Explain and implement basic steps of funding, building, and operating an AI solution
- Gain knowledge of advancements in the DoD Ethical AI Principles and Responsible AI, and recognize appropriate application when planning, developing and deploying solutions

Modality

Each course (Executive, Senior) is offered in-person for two or three-days, depending on the academic partner. The course requires a time commitment of 3 hours of pre-course reading and onsite two or three full days and requires a time commitment of 3 hours of pre-reading and two or three full days onsite.

Applying Data Science and Machine Learning (formerly Create AI)



Who Should Take this Training

The course is for a technical audience who will develop and deliver AI-enabled solutions and tools within the DoD.

Course Summary

Participants will build AI tools using Python, Spark and AWS and develop a greater understanding of AI methods and frameworks.

Learning Objectives

- Develop and produce a wide-array of ethical AI applications.
- Determine which AI capability is most applicable to the use case.
- Industrialize solutions to support enterprise-scale application using DoD platforms and tools.

Modality

This course is offered asynchronously and virtually and requires a time commitment of 4-6 hours per week for 14 weeks.

Who Should Take this Training

The course was designed for DoD personnel with an interest in AI development and data science.

Course Summary

Participants will build foundational skills in AI methods, machine learning, and data science using tools like Python and SQL as you earn an industry-accepted Udacity nanodegree. This course introduces learners to predictive modeling, neural networks, and deep learning with TensorFlow.

Learning Objectives

- Develop and put into production ethical AI applications
- Translate business questions into technical, data-driven solutions
- Rapidly prototype analytic solutions, such as predictive models using supervised and unsupervised learning techniques

Modality

This course is offered asynchronously and virtually and requires a time commitment of 4-5 hours per week for 12 weeks.

Enabling Data and AI Adoption (formerly Facilitate AI)



Who Should Take this Training

This course is for subject matter experts who want to be a key contributor in bringing AI to your organization. Product owners, UI and UX designers, as well as other technical experts are great fits for this course.

Course Summary

Participants will learn how to advocate for AI-driven technology and liaise between AI developers and the end-users of AI tools. A learner will determine how to integrate AI tools into their business and operational processes.

Learning Objectives

- Select the most appropriate AI tool for a given problem
- Discuss strengths and limitations of AI for specific use cases
- Distinguish ethical from unethical implementations of AI
- Identify ways data can add value to a business process, team, or organization
- Evaluate the quality of data inputs and outputs
- Select the best ways to present data
- Describe User Experience design principles
- Incorporate design thinking principles into AI tools
- Create a change management plan for AI adoption
- Identify the training needs of end users
- Describe techniques for bridging the gap between business and technology communications
- Demonstrate best practices in gathering AI tool requirements

Modality

This course is offered virtually with both synchronous and asynchronous portions and requires a time commitment of 5-7 hours per week for 7 weeks.

Managing Data and AI Solutions (formerly Drive AI)



Who Should Take this Training

This course is for non-technical personnel that appreciate the value that AI-enabled solutions can bring to the DoD, and you want to learn how AI can support your mission, how to raise new requirements, and how to request new AI tools.

Course Summary

Participants will learn how to ensure the appropriate AI tools and capabilities are acquired, developed, and sustained across the DoD.

Learning Objectives

- Understand trends and future use cases of AI
- Categorize and evaluate AI ethical use cases
- Prototype, test, and iterate on an AI product

Modality

This course is offered asynchronously and virtually and requires a time commitment of 5-7 hours a week for 12 weeks.

Exploring Data and AI (formerly Create AI) Slick Sheet



Who Should Take this Training

This course is for managers who ensure AI tools and capabilities are acquired, developed and sustained. It is designed for personnel responsible for testing or selecting AI tools and solutions.

Course Summary

Participants will learn foundational concepts of digital, data and AI, how to leverage these solutions within the DoD, and how to use AI tools and data to support your mission.

Learning Objectives

- Engage with and interpret AI output to inform decision making
- Understand AI concepts and recognize potential future applications

Modality

This course is offered asynchronously and virtually and requires a time commitment of 8 hours.