The Future of War and Technology Training Course

Professional Development Training Course Outline

Category	Political Science and International Relations	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

The Future of War and Technology Training Course provides a comprehensive exploration of the **emerging and disruptive technologies (EDTs)** that are fundamentally reshaping **modern warfare** and **global security**. As the character of conflict evolves beyond traditional battlefields, military and defense professionals must adapt to the challenges posed by **artificial intelligence (AI)**, **cyber warfare**, **unmanned systems**, and **hypersonic weapons**. This training is designed to equip participants with the strategic foresight and technical knowledge necessary to navigate this complex landscape, fostering a deeper understanding of the **technological-military nexus** and its implications for future operations, doctrine, and policy.

The curriculum delves into the **strategic integration** of these technologies, examining their operational impact and the ethical, legal, and geopolitical considerations they raise. Through a blend of theoretical frameworks and practical case studies, participants will learn to analyze **asymmetric threats**, leverage **data-driven decision-making**, and develop innovative strategies for **multi-domain operations**. The course emphasizes the critical role of **human-machine teaming** and **enhanced situational awareness** in maintaining a decisive **technological edge** in an era of rapid innovation and **accelerated warfare**.

Programme Curriculum

The Future of War and Technology Training Course

Introduction

The Future of War and Technology Training Course provides a comprehensive exploration of the **emerging and disruptive technologies (EDTs)** that are fundamentally reshaping **modern warfare** and **global security**. As the character of conflict evolves beyond traditional battlefields, military and defense professionals must adapt to the challenges posed by **artificial intelligence (AI)**, **cyber warfare**, **unmanned systems**, and

hypersonic weapons. This training is designed to equip participants with the strategic foresight and technical knowledge necessary to navigate this complex landscape, fostering a deeper understanding of the **technological-military nexus** and its implications for future operations, doctrine, and policy.

The curriculum delves into the **strategic integration** of these technologies, examining their operational impact and the ethical, legal, and geopolitical considerations they raise. Through a blend of theoretical frameworks and practical case studies, participants will learn to analyze **asymmetric threats**, leverage **data-driven decision-making**, and develop innovative strategies for **multi-domain operations**. The course emphasizes the critical role of **human-machine teaming** and **enhanced situational awareness** in maintaining a decisive **technological edge** in an era of rapid innovation and **accelerated warfare**.

Course Duration

5 days

Course Objectives

1. **Analyze** the strategic impact of **emerging and disruptive technologies** on future conflict.
2. **Evaluate** the role of **Artificial Intelligence (AI)** and **machine learning** in military applications.
3. **Understand** the principles of **cyber warfare** and the importance of **cyber resilience**.
4. **Explore** the capabilities and strategic use of **unmanned and autonomous systems**, including **drone swarms**.
5. **Assess** the threat posed by and countermeasures for **hypersonic weapons** and **directed energy weapons (DEWs)**.
6. **Examine** the evolving landscape of **space-based warfare** and **orbital dominance**.
7. **Identify** and counter **hybrid threats** and **information warfare** tactics.
8. **Formulate** strategies for **network-centric warfare** and **data-driven command and control (C2)**.
9. **Discuss** the **ethical and legal frameworks** governing the use of autonomous and lethal systems.
10. **Develop** an understanding of the **military-industrial innovation ecosystem** and **future force planning** .
11. **Apply** principles of **multi-domain operations** to complex geopolitical scenarios.
12. **Master** key concepts in **electronic warfare** and **electromagnetic spectrum operations**.
13. **Gain** insights into **quantum computing's** potential for military applications in cryptography and sensing.

Organizational Benefits

- Equips personnel with the knowledge to integrate and leverage next-generation technologies, ensuring readiness for future conflicts.
- Improves leadership's ability to make informed decisions on technology investment, doctrine development, and resource allocation.
- Provides a critical upskilling pathway for military and defense professionals, fostering a culture of continuous learning and innovation.
- Facilitates a common understanding of technological advancements, improving collaboration across different military branches, allied forces, and defense partners.
- Enhances capabilities in identifying and defending against advanced threats, including cyberattacks and asymmetric tactics.
- Ensures the organization maintains a decisive **technological edge** over adversaries by staying ahead of the curve.
- Prepares policymakers and planners to create effective strategies and ethical guidelines for the use of new technologies.

Target Audience

1. Military Officers and NCOs
2. Defense Contractors and Industry Professionals
3. Strategic Planners and Policy Analysts
4. Intelligence and Cybersecurity Analysts
5. Defense Technology Researchers and Engineers
6. Government and National Security Officials
7. Academics and Students of Strategic Studies
8. Law Enforcement and Counter-terrorism Specialists

Course Outline

Module 1: The Evolving Battlefield and Technological Revolution

- The shift from conventional to **accelerated warfare**.
- The role of **asymmetric warfare** and **hybrid threats**.
- **Military-civilian technology convergence**.
- Understanding the **technological-military nexus**.
- Case Study: The Russo-Ukrainian War and the use of commercially available drone technology.

Module 2: Artificial Intelligence and Machine Learning in Combat

- **AI-driven decision support systems** for command and control.
- **AI for intelligence, surveillance, and reconnaissance (ISR)**.
- The rise of **lethal autonomous weapons systems (LAWS)**.
- **Human-machine teaming** and augmented decision-making.
- Case Study: Project Maven and the integration of AI for aerial imagery analysis.

Module 3: Cyber and Information Warfare

- The **cyber threat landscape** and **critical infrastructure protection**.
- Offensive and defensive **cyber operations**.
- **Information warfare**, disinformation, and psychological operations.
- **Cyber resilience** and network security in military contexts.
- Case Study: The 2022 Viasat cyberattack and its impact on military communications.

Module 4: Unmanned and Autonomous Systems

- **Unmanned aerial vehicles (UAVs)**, ground, and maritime systems.
- **Drone swarm technology** and its tactical implications.
- Autonomous logistics, supply chains, and maintenance.
- Counter-UAS (C-UAS) technologies.
- Case Study: The use of autonomous UUVs for naval reconnaissance in the South China Sea.

Module 5: Hypersonics and Advanced Weaponry

- The physics and strategy of **hypersonic missiles**.
- **Directed energy weapons (DEWs)**, including lasers and high-power microwaves.
- Precision-guided munitions and smart weapons.
- The new **global arms race** and the strategic balance of power.
- Case Study: Russia's use of Kinzhal hypersonic missiles in Ukraine.

Module 6: Space and Electromagnetic Spectrum Operations

- **Space-based ISR** and satellite warfare.
- The militarization of **low-earth orbit (LEO)**.
- **Electronic warfare (EW)** and countermeasures.
- **Cyber-electromagnetic activities (CEMA)**.
- Case Study: Anti-satellite (ASAT) weapon tests and their implications for space security.

Module 7: Strategic Integration and Multi-Domain Operations

- The concept of **Joint All-Domain Command and Control (JADC2)**.
- Integrating new technologies into existing military doctrine.
- The future of **logistics and sustainment** in a high-tech conflict.
- Organizational and cultural challenges of technology adoption.
- Case Study: The U.S. Army's Project Convergence and rapid prototyping for joint operations.

Module 8: Ethical, Legal, and Policy Considerations

- The ethics of **lethal autonomous weapons**.
- International humanitarian law and new technologies.
- **AI bias** and its impact on military decision-making.
- The role of public-private partnerships in defense innovation.
- Case Study: The debate surrounding the use of facial recognition technology in military contexts.

Training Methodology

- **Interactive Lectures:** Expert-led sessions with Q&A.
- **Scenario-Based Simulations:** Practical exercises and role-playing to test decision-making under pressure.
- **Case Study Analysis:** In-depth examination of historical and contemporary conflicts to illustrate key concepts.
- **Group Discussions:** Facilitated discussions to encourage peer learning and diverse perspectives.
- **Live Demonstrations (where applicable):** Showcasing technology in action through videos or virtual environments.
- **Guest Speakers:** Insights from leading professionals in military, defense, and technology.
- **Capstone Project:** Participants apply course concepts to develop a strategic plan for a future conflict scenario.

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

Ready to enroll or request a customized program? Book online or contact us:

Register Online Now

Email: info@fineskilltrainingcenter.com | Website: www.fineskilltrainingcenter.com