Emerging and Disruptive Technologies (EDTs) in Defense Planning Training Course

Professional Development Training Course Outline

Category	Defense and Security	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Emerging and disruptive technologies are redefining modern defense planning, transforming how threats are detected, assessed, and neutralized. With rapid advancements in artificial intelligence, hypersonic systems, autonomous platforms, quantum technologies, and cyber warfare capabilities, defense organizations must adapt to fast-evolving security environments. Emerging and Disruptive Technologies (EDTs) in Defense Planning Training Course equips participants with strategic insights and operational frameworks to anticipate, evaluate, and integrate EDTs into national and institutional defense strategies.

Participants will explore the accelerating rate of technological convergence, shifting power dynamics, and global competition driven by innovation. Through practical examples, case studies, and defense technology analysis, the training provides military planners, analysts, and policymakers with the tools to leverage cutting-edge technologies, strengthen resilience, modernize force structures, and ensure strategic superiority in an increasingly complex defense landscape.

Programme Curriculum

Emerging and Disruptive Technologies (EDTs) in Defense Planning Training Course

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Course Objectives

1. Understand key emerging and disruptive technologies relevant to defense planning.
2. Analyze global defense trends shaped by rapid technological innovation.
3. Evaluate strategic risks and opportunities posed by EDTs.
4. Integrate AI, autonomous systems, and advanced sensors into defense strategies.
5. Assess cyber warfare, digital command systems, and information dominance trends.
6. Explore quantum technologies and their impact on encryption and military communication.
7. Identify vulnerabilities created by technologically advanced adversaries.
8. Strengthen capability development and modernization cycles through EDT adoption.
9. Develop force transformation plans aligned with emerging technologies.
10. Enhance decision-making using predictive analytics and data-driven insights.
11. Examine interoperability challenges and multi-domain operational demands.
12. Apply EDT frameworks to national defense policies and planning architectures.
13. Build institutional readiness for future battlefields shaped by technological disruption.

Organizational Benefits

- Enhanced strategic foresight in defense planning
- Improved capability development aligned with technological innovation
- Strengthened national security decision-making
- Increased readiness for multi-domain and hybrid threats
- Improved integration of AI, autonomy, and cyber tools
- Greater interoperability across joint and allied forces
- Optimized modernization pathways and resource allocation
- Reduced vulnerability to disruptive technological shifts
- Enhanced competitiveness in global defense environments
- Strengthened institutional resilience against emerging threats

Target Audiences

- Defense planners and strategists
- Military modernization and capability development teams
- Defense policy analysts and advisors
- National security and intelligence officers
- Cybersecurity and digital operations units
- Military research and innovation teams
- Defense procurement and technology officers
- Government security agencies and defense partners

Course Duration: 5 days

Course Modules

Module 1: Overview of Emerging and Disruptive Technologies

- Examine the definitions and characteristics of EDTs
- Assess global trends and innovation drivers
- Identify critical technologies reshaping defense strategy
- Explore the role of strategic competition in tech advancement
- Understand the defense implications of rapid innovation
- Case Study: Nations transforming security strategies through EDT adoption

Module 2: Artificial Intelligence and Autonomous Defense Systems

- Explore AI-enabled analysis and decision-support tools
- Assess autonomous weapons and unmanned systems
- Understand human–machine teaming concepts
- Evaluate ethical and legal considerations in AI deployment
- Examine AI-enabled surveillance and reconnaissance platforms
- Case Study: Autonomous drone operations in modern conflict

Module 3: Cyber Warfare and Digital Battlefield Technologies

- Assess emerging cyberattack and cyber-defense capabilities
- Understand digital command-and-control innovations
- Explore cyber-enabled espionage and hybrid warfare
- Strengthen cyber resilience and threat intelligence workflows
- Integrate cyber operations into defense planning
- Case Study: Cyber operations influencing strategic outcomes

Module 4: Quantum Technologies and Advanced Communications

- Understand quantum encryption and quantum computing impacts
- Evaluate secure communication technologies for defense
- Explore quantum sensors for precision navigation
- Identify vulnerabilities caused by quantum breakthroughs
- Assess long-term defense implications of quantum disruption
- Case Study: Quantum-resistant communication systems in national defense

Module 5: Hypersonic Systems and Next-Generation Strike Capabilities

- Examine hypersonic missile technologies and global arms competition
- Understand detection challenges and defensive countermeasures
- Evaluate the strategic impact of high-speed maneuverable weapons
- Analyze force projection and deterrence implications
- Explore aerospace innovation influencing hypersonic growth
- Case Study: Global responses to hypersonic weapons deployment

Module 6: Biotechnology, Human Enhancement and Defense Readiness

- Explore biological threat detection and biodefense tools
- Assess human performance enhancement technologies
- Understand biosurveillance and genetic risk monitoring
- Examine dual-use research concerns and strategic risks
- Integrate biotech advancements into defense scenarios
- Case Study: Biotech influence on force health protection strategies

Module 7: Robotics, Sensors and Advanced Surveillance Systems

- Evaluate robotic platforms for land, sea and air operations
- Explore sensor fusion and real-time intelligence systems
- Understand automated perimeter and battlefield surveillance
- Assess precision tracking, targeting and situational awareness tools
- Integrate advanced sensors into multi-domain operations
- Case Study: Sensor-driven battlefield awareness in joint operations

Module 8: Integrating EDTs into Defense Planning and Capability Development

- Develop frameworks for EDT-driven modernization
- Align defense strategies with emerging technological needs
- Evaluate capability gaps using forward-looking assessment tools
- Strengthen cross-domain and allied interoperability
- Implement institutional pathways for continuous innovation
- Case Study: Modernization roadmap using EDT-based capability planning

Training Methodology

- Instructor-led presentations on defense technology trends
- Group activities analyzing EDT impacts in real defense scenarios
- Case study evaluations from global military operations
- Practical exercises on capability planning and threat assessment
- Interactive discussions on policy, strategy and modernization
- Development of action plans for integrating EDTs into organizational planning

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
02 Nov 2026	06 Nov 2026	Online	$1,000
02 Nov 2026	06 Nov 2026	Physical	$1,500
02 Nov 2026	06 Nov 2026	Physical	$3,000
02 Nov 2026	06 Nov 2026	Physical	$3,000
02 Nov 2026	06 Nov 2026	Physical	$6,000
02 Nov 2026	06 Nov 2026	Physical	$4,500
02 Nov 2026	06 Nov 2026	Physical	$6,000
02 Nov 2026	06 Nov 2026	Physical	$6,000

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