Defense Innovation Ecosystems and Dual-Use Technologies 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

The rapidly evolving global security environment demands a robust understanding of defense innovation ecosystems and the strategic applications of dual-use technologies. Defense Innovation Ecosystems and Dual-Use Technologies Training Course equips participants with comprehensive insights into the development, deployment, and management of emerging technologies that serve both military and civilian purposes. Participants will explore innovation frameworks, research and development strategies, and technology transfer mechanisms that enable defense agencies and allied industries to maintain technological superiority while fostering collaboration with private sector and academic partners. Emphasis is placed on leveraging dual-use innovations to accelerate defense capabilities, optimize resource allocation, and enhance operational readiness.

The training further examines governance structures, regulatory frameworks, and strategic policies that support the effective integration of dual-use technologies into national security strategies. By combining theoretical knowledge with practical case studies, participants will learn how to navigate the challenges of intellectual property, ethical considerations, export control compliance, and cross-sector collaboration. The course is designed to strengthen decision-making, promote technological innovation, and prepare participants to lead programs that bridge defense and civilian technological advancements in a rapidly evolving global context.

Programme Curriculum

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Course Objectives

1. Understand the architecture and dynamics of defense innovation ecosystems.
2. Explore the strategic significance of dual-use technologies in national security.
3. Analyze technology transfer and commercialization processes.
4. Evaluate R&D prioritization methods in defense and dual-use sectors.
5. Identify emerging trends in defense-related innovation and technology adoption.
6. Assess governance and policy frameworks supporting dual-use technology integration.
7. Explore partnerships between defense, private sector, and academia.
8. Examine ethical, legal, and regulatory considerations in dual-use innovation.
9. Develop risk assessment frameworks for new technology deployment.
10. Understand intellectual property management in defense innovation.
11. Apply strategic foresight to anticipate technological disruption in defense.
12. Design innovation programs that foster collaboration and sustainable impact.
13. Implement performance metrics for innovation projects and technology adoption.

Organizational Benefits

- Enhanced capability to manage dual-use technology programs
- Improved strategic decision-making in defense innovation
- Strengthened public-private partnerships for technological advancement
- Better risk management for emerging technology integration
- Increased operational readiness and technological superiority
- Improved compliance with defense and export regulations
- Enhanced innovation culture within defense organizations
- Optimized R&D resource allocation and prioritization
- Measurable impact of innovation initiatives and dual-use projects
- Strengthened institutional reputation and credibility

Target Audiences

- Defense innovation managers and program directors
- R&D officers and technology strategists
- Policy makers in defense and security sectors
- Military planners and operational analysts

- Technology transfer and commercialization professionals
- Academic and research institution liaisons
- Export control and regulatory compliance officers
- Consultants and advisors in defense innovation

Course Duration: 10 days

Course Modules

Module 1: Introduction to Defense Innovation Ecosystems

- Overview of global defense innovation systems and stakeholders
- Mapping defense innovation actors and institutions
- Understanding national and regional technology policies
- Key processes for technology development and adoption
- Evaluating ecosystem performance and benchmarking practices
- Case Study: Comparative analysis of US and European defense innovation ecosystems

Module 2: Dual-Use Technologies: Concepts and Applications

- Defining dual-use technologies and strategic relevance
- Emerging dual-use technology categories
- Civilian applications supporting military capabilities
- Challenges in integrating dual-use technologies in defense
- Prioritization and selection criteria for dual-use projects
- Case Study: Implementation of drone technologies in defense and civil sectors

Module 3: Research & Development in Defense Innovation

- Structuring R&D programs for defense priorities
- Funding models and investment strategies
- Collaborative R&D with private sector and academia
- Project management approaches in defense technology development
- Measuring R&D impact on operational capabilities
- Case Study: Joint research project in cyber-defense technology

Module 4: Technology Transfer and Commercialization

- Mechanisms for transferring military technology to civilian applications
- Licensing, patenting, and intellectual property management
- Commercialization strategies for dual-use innovations
- Regulatory considerations for technology export and collaboration
- Stakeholder engagement and knowledge sharing practices
- Case Study: Successful defense-to-civilian technology spin-off

Module 5: Governance and Policy Frameworks

- National security policies supporting dual-use technologies
- Institutional roles and responsibilities in innovation governance
- Regulatory compliance and ethical considerations
- Defense procurement strategies for dual-use technologies
- Policy instruments to incentivize private sector participation

- Case Study: Policy reforms supporting innovation in European defense sector

Module 6: Strategic Partnerships and Collaboration

- Building alliances between defense agencies, industry, and academia
- Public-private partnership models and frameworks
- Knowledge exchange and collaborative R&D initiatives
- Mechanisms for international technology cooperation
- Managing IP and confidentiality in joint projects
- Case Study: Cross-border collaborative project in AI-enabled defense systems

Module 7: Risk Management and Ethical Considerations

- Identifying operational, technological, and strategic risks
- Evaluating ethical implications of dual-use technologies
- Compliance with international law and export control regimes
- Mitigation strategies for technological and operational risks
- Integrating risk assessment into project lifecycle management
- Case Study: Managing risks in autonomous weapon system development

Module 8: Monitoring, Evaluation and Future Foresight

- Defining KPIs and performance metrics for innovation programs
- Continuous monitoring of technology adoption and impact
- Evaluation of program effectiveness and lessons learned
- Applying foresight methodologies to anticipate technological disruption
- Strategic planning for future defense capabilities
- Case Study: Foresight exercise on AI and robotics in national defense

Training Methodology

- Instructor-led lectures and expert presentations
- Interactive group exercises and scenario-based workshops
- Case study analyses from global defense innovation programs
- Collaborative problem-solving sessions and simulations
- Practical exercises in policy, risk, and technology assessment
- Feedback, reflection sessions, and action plan development

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

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

Register Online Now

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