Space Insurance Fundamentals Training Course

Professional Development Training Course Outline

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

Course Introduction

As the global space economy expands, with increasing commercial launches, satellite deployments, and interplanetary missions, understanding the principles of space insurance becomes critical. Training Course Outline on Space Insurance Fundamentals is designed for professionals entering the aerospace industry, insurance sector, and governmental agencies to grasp the evolving risks, legal frameworks, and underwriting practices involved in satellite insurance, launch liability, and space asset protection.

This course delves into the complex landscape of space risk management, combining theoretical concepts with real-world case studies. Through interactive modules, trainees will explore policy structures, regulatory compliance, claims handling, and emerging trends like space tourism and mega-constellations. Designed by experts in aerospace law, insurance underwriting, and orbital mechanics, this program equips learners with practical knowledge and industry-standard tools.

Programme Curriculum

Space Insurance Fundamentals Training Course

Introduction

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Course Objectives

By the end of the course, participants will be able to:

1. Understand key components of space insurance policies and risk exposure.
2. Analyze pre-launch, launch, and in-orbit coverage frameworks.
3. Identify emerging risks in space activities like space debris and cyber threats.
4. Apply principles of underwriting in satellite and spacecraft insurance.
5. Interpret international laws governing space insurance (e.g., Outer Space Treaty).
6. Evaluate claims handling processes in space mission failures.
7. Examine reinsurance structures in space projects.
8. Assess liability concerns related to multi-national space collaborations.
9. Design custom insurance solutions for commercial satellite ventures.
10. Explore mega-constellation risk pooling and pricing models.
11. Understand insurance requirements for private space tourism.
12. Integrate ESG (Environmental, Social, Governance) considerations in policy design.
13. Navigate regulatory trends and national insurance mandates.

Target Audience

Target Audiences

1. Aerospace Engineers and Project Managers
2. Insurance Underwriters and Brokers
3. Legal Experts in Aviation and Space Law
4. Government and Regulatory Officials
5. Satellite Manufacturers and Operators
6. Risk Analysts in Defense and Space Agencies
7. Investors in SpaceTech Startups
8. Space Tourism Entrepreneurs

Course Duration: 5 days

Course Modules

Module 1: Introduction to Space Insurance

- Definition and scope of space insurance
- Evolution of the global space insurance market
- Types of coverage: pre-launch, launch, in-orbit
- Role of Lloyd’s of London in aerospace insurance
- Common exclusions and limitations
- **Case Study:** The 1998 Astra Satellite Launch Failure

Module 2: Risk Assessment in Space Projects

- Identifying insurable space risks
- Tools for quantifying space risk
- Role of risk models in underwriting
- Differentiating risk in LEO, MEO, GEO orbits
- Impact of geopolitical tensions on space risk
- **Case Study:** SpaceX’s Falcon 9 Explosion (2016)

Module 3: Underwriting Space Missions

- Underwriting criteria for satellite missions
- Insurance premiums and pricing strategies

- Importance of launch history and reliability
- Role of reinsurers and syndication
- Coordination with spacecraft manufacturers
- **Case Study:** Galileo Satellite Insurance Framework (EU)

Module 4: Legal Frameworks and Treaties

- Overview of the Outer Space Treaty and Liability Convention
- Cross-border liability and jurisdiction issues
- National vs international legal obligations
- Legal implications of dual-use payloads
- Compliance with insurance mandates (e.g., FAA, CNES)
- **Case Study:** Cosmos 954 Incident and Liability Settlement

Module 5: Claims Management in Space Insurance

- Claims reporting process for space accidents
- Forensic analysis of space failures
- Negotiation and settlement practices
- Partial vs total loss handling
- Importance of telemetry and mission logs
- **Case Study:** Telkom-3 Satellite Loss and Claim Resolution

Module 6: Reinsurance and Co-Insurance in Space

- Why reinsurance is crucial in space insurance
- Treaty vs facultative reinsurance structures
- Risk spreading and pooling methods
- Market participation: Lloyd's syndicates & global players
- Capital adequacy and regulatory compliance
- **Case Study:** SES Reinsurance Agreement Model

Module 7: Emerging Trends and New Challenges

- Space debris proliferation and insurance implications
- Cybersecurity risks in space systems
- Risks associated with mega-constellations (e.g., Starlink)
- Space tourism and regulatory uncertainty
- Use of AI and data analytics in policy design
- **Case Study:** OneWeb Bankruptcy and Insurance Fallout

Module 8: Designing Customized Insurance Solutions

- Tailoring policies for commercial vs government clients
- Incorporating ESG and sustainability metrics
- Multi-mission, multi-vehicle policy bundling
- Collaborative insurance models in international ventures
- Satellite-as-a-Service (SataaS) and risk implications
- **Case Study:** Amazon Kuiper vs Starlink Policy Structuring

Training Methodology

- Instructor-led live webinars with domain experts
- Interactive case study analysis and roleplay
- Hands-on activities using risk simulation tools
- Access to a digital knowledge portal and resources

- Peer-reviewed assignments and certification quiz

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

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