# Strategic Risk Management and Resilience in R&D Training Course



07 - 11 Dec 2026

Berlin

5800 € (Per Person)

Ref: #RD8444_4791

## Course Introduction / Overview:

Innovation is inherently a journey into the unknown, and with it comes a range of technical, financial, and strategic risks that can derail even the most promising projects. This training course is designed to provide R&D leaders, project managers, and innovators with the frameworks and practical skills to identify, assess, and mitigate risks, while also building a resilient organization that can adapt to unforeseen challenges. It goes beyond a simple checklist of potential problems to focus on building a proactive culture of risk awareness and strategic foresight. We will explore how to use tools like Monte Carlo simulation, conduct a thorough risk assessment, and create a resilient R&D portfolio that can withstand market volatility and technological disruption. The curriculum is informed by the foundational work of global academics like Nassim Nicholas Taleb, whose book "Antifragile" explores how some systems benefit from disorder and volatility. His work provides a valuable lens for thinking about how to build resilience into R&D organizations. This program provides a clear blueprint for turning risk from a threat into a strategic advantage and building an organization that not only survives but thrives in an uncertain world. BIG BEN Training Center is committed to empowering professionals to navigate uncertainty with confidence.

## Target Audience / This training course is suitable for:

- R&D directors and managers.
- Project managers.
- Strategic planners.
- Financial analysts in R&D.
- Compliance and risk officers.
- Innovation managers.
- Engineers and scientists.

## Target Sectors and Industries:

- Technology and software.
- Pharmaceutical and biotechnology.
- Aerospace and defense.
- Financial services.
- Energy and utilities.
- Manufacturing.
- Government and public sector R&D departments.

## Target Organizations Departments:

- Research and Development (R&D).
- Project Management Office (PMO).
- Corporate strategy.
- Risk management and compliance.
- Finance.
- Innovation.
- Legal.

## Course Offerings:

By the end of this course, the participants will have able to:

- Conduct a comprehensive risk assessment for R&D projects.
- Develop and implement a risk mitigation strategy.
- Build a resilient R&D portfolio.
- Use quantitative and qualitative tools for risk analysis.
- Manage financial risks and resource allocation.
- Create a business continuity and disaster recovery plan for R&D.
- Foster a culture of strategic foresight and risk awareness.
- Communicate risks and opportunities to senior leadership.

## Course Methodology:

This training course uses a highly interactive and case-based methodology to ensure participants gain actionable skills in risk management and resilience. The program incorporates detailed case studies of R&D projects that have faced significant risks, from budget overruns to unexpected technical hurdles. We will use interactive workshops and risk simulation exercises to practice critical skills like identifying potential threats, evaluating their impact, and developing a contingency plan. The course includes a hands-on group project where participants will work together to conduct a full risk analysis for a fictional R&D project. BIG BEN Training Center believes that hands-on training is essential for mastering this complex field. Our expert facilitators will guide discussions and provide personalized feedback, ensuring that participants leave with the confidence and practical experience needed to lead their teams in an uncertain world.

## Course Agenda (Course Units):

### Unit One: Strategic Foundations of R&D Risk

- The unique nature of risk in R&D.
- Types of R&D risk (e.g., technical, financial, market).
- Introduction to risk management frameworks.
- Building a culture of risk awareness.
- The concept of antifragility in research.

### Unit Two: Risk Identification and Analysis

- Tools for risk identification.
- Qualitative risk analysis (e.g., risk matrix).
- Quantitative risk analysis (e.g., Monte Carlo simulation).
- Risk registers and documentation.
- Assessing the probability and impact of risks.

### Unit Three: Risk Mitigation and Response

- Strategies for risk mitigation.
- Developing contingency and fallback plans.
- Crisis management in R&D.
- The role of leadership in a crisis.
- Case studies in successful and failed responses.

### Unit Four: Building Resilience in R&D Organizations

- The characteristics of a resilient organization.
- Diversifying your R&D portfolio.
- Strategic foresight and scenario planning.
- Financial resilience and resource allocation.
- Protecting intellectual property.

### Unit Five: The Future of Risk and Resilience

- The impact of technology on R&D risk.
- Cybersecurity in research.
- Ethical considerations of risk management.
- Building a personal leadership roadmap.
- Future trends in R&D risk.

## FAQ:

### Qualifications required for registering to this course?

There are no requirements.

### How long is each daily session, and what is the total number of training hours for the course?

This training course spans five days, with daily sessions ranging between 4 to 5 hours, including breaks and interactive activities, bringing the total duration to 20 - 25 training hours.

## Something to think about:

How can R&D leaders encourage the kind of intellectual risk-taking that leads to groundbreaking discoveries while also establishing a robust risk management framework that protects the organization from catastrophic failure?

## What unique qualities does this course offer compared to other courses?

This training course is a highly specialized program that focuses on the unique and critical intersection of R&D and risk management, which sets it apart from generic project management or finance courses. We go beyond a simple checklist of risks to provide a holistic framework for building a resilient organization that can thrive on change and uncertainty. Our curriculum is tailored to address the specific needs of R&D professionals, providing them with the tools to manage not just the known risks but also the unknown ones. The course distinguishes itself by emphasizing not only the technical skills needed to analyze risk but also the strategic and leadership skills required to build a culture of proactive risk management. By focusing on both the practical and the strategic aspects of risk and resilience, this program provides an invaluable skill set that is essential for any professional committed to a successful and innovative career.