Training Course on Data Protection in Research and Development

Professional Development Training Course Outline

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

Course Introduction

In today’s fast-paced digital world, data protection in research and development (R&D) has become a critical concern for organizations, institutions, and innovators. With increased scrutiny from regulatory bodies and growing threats from cybercriminals, it is essential for professionals in R&D to understand and implement robust data privacy, compliance strategies, and secure data governance frameworks. Training Course on Data Protection in Research and Development is designed to equip participants with comprehensive knowledge of data protection laws, compliance obligations, and industry best practices tailored specifically to the R&D environment.

This course combines theoretical foundations with real-world case studies to demonstrate how data protection regulations such as GDPR, HIPAA, and ISO/IEC 27001 apply to R&D settings. Participants will learn how to assess data privacy risks, design ethical data handling strategies, and manage cross-border data flows while protecting intellectual property and ensuring regulatory compliance.

Programme Curriculum

Training Course on Data Protection in Research and Development

Introduction

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Course Objectives

1. Understand the fundamentals of data protection in R&D environments.
2. Explain the legal and ethical principles of GDPR, HIPAA, and data privacy laws.
3. Assess risks associated with data breaches in scientific research.
4. Apply privacy-by-design principles in R&D projects.
5. Develop frameworks for secure data storage and transmission.
6. Identify and mitigate compliance risks in clinical trials and innovation labs.
7. Learn data anonymization and pseudonymization techniques.
8. Analyze cross-border data transfer challenges and solutions.
9. Establish data governance strategies for R&D teams.
10. Create effective incident response plans for R&D data breaches.
11. Explore AI ethics, data ethics, and their role in R&D.
12. Evaluate real-world case studies on data privacy failures in R&D.
13. Design customized data protection policies for your organization’s R&D division.

Target Audience

1. Research Scientists
2. Data Privacy Officers
3. IT Security Professionals
4. Clinical Research Coordinators
5. Academic Researchers
6. Innovation and R&D Managers
7. Compliance and Risk Analysts
8. Legal Advisors in R&D Fields

Course Duration: 5 days

Course Modules

Module 1: Foundations of Data Protection in R&D

- Introduction to data protection principles
- Importance of data privacy in research environments
- Key R&D-specific data vulnerabilities
- Overview of data types in research (PII, PHI, IP)
- Regulatory landscape (GDPR, HIPAA, local laws)
- **Case Study:** GDPR breach in a European biotechnology firm

Module 2: Legal and Ethical Frameworks

- Core legal obligations under GDPR, HIPAA, and CCPA
- Informed consent and data subject rights
- Ethical considerations in biomedical and AI research
- Intellectual property vs data privacy conflicts
- International standards (ISO/IEC 27001, 27701)
- **Case Study:** Ethics violations in genetic data research

Module 3: Risk Assessment and Data Breach Management

- Identifying and classifying R&D data risks
- Conducting Data Protection Impact Assessments (DPIAs)
- Common breach scenarios and mitigation strategies
- Role of Data Protection Officers (DPOs)
- Breach notification requirements and timelines
- **Case Study:** University data breach from unsecured servers

Module 4: Privacy by Design and Secure Architecture

- Principles of privacy-by-design and by-default
- Embedding security in R&D project lifecycles
- Designing privacy-first data collection methods
- Secure research platforms and cloud environments
- Tools and technologies for privacy compliance
- **Case Study:** Secure design implementation in a clinical trial system

Module 5: Data Governance and Lifecycle Management

- Establishing data governance frameworks
- Data classification, storage, and access controls
- Retention, archival, and destruction policies
- Collaboration and data-sharing policies
- Building a culture of data responsibility
- **Case Study:** Data lifecycle mismanagement in a pharma company

Module 6: Cross-Border Data Transfers and Global Compliance

- Challenges of international data flow in R&D
- Data transfer mechanisms (SCCs, BCRs, adequacy decisions)
- Compliance with regional laws (EU, US, APAC)
- Legal responsibilities for multinational R&D teams
- Role of cloud providers and third-party vendors
- **Case Study:** Cross-border data transfer failure in multinational research

Module 7: Data Anonymization and Pseudonymization

- Importance of de-identification in research datasets
- Techniques for anonymizing sensitive data
- Pseudonymization tools and frameworks
- Balancing research utility and privacy
- Regulatory guidance on anonymization standards
- **Case Study:** Improper anonymization in social science research

Module 8: Incident Response and Policy Development

- Building a comprehensive incident response plan
- Steps to handle R&D data leaks and hacks
- Internal reporting and documentation practices
- Training staff on data protection protocols
- Creating tailored data protection policies
- **Case Study:** Delayed breach response in a tech startup’s R&D lab

Training Methodology

- Interactive lectures with expert trainers
- Hands-on workshops using real R&D scenarios

- Group discussions and role-play exercises
- Case study analysis and problem-solving
- Knowledge checks and policy development activities

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

Start Date	End Date	Location	Price
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