# Good Laboratory Practice (GLP) for Laboratories Training Course

Professional Development Training Course Outline

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|---|---|---|---|
| **Category** | Quality Assurance and ISO standards | **Duration** | 5 Days |
| **Base Fee** | $1,500 USD | **Delivery Mode** | Online / On-site Hybrid |

## Course Introduction

Good Laboratory Practice (GLP) is an essential set of principles designed to ensure the quality, reliability, and integrity of laboratory data. In today?ÇÖs fast-paced scientific and industrial environment, laboratories must align with international GLP standards to meet regulatory compliance and ensure trustworthy results. Good Laboratory Practice (GLP) for Laboratories Training Course provides laboratory professionals with the knowledge and skills required to establish, implement, and maintain GLP systems. Through hands-on learning, participants will gain confidence in applying GLP requirements, improving laboratory operations, and supporting accreditation processes.

This course emphasizes practical applications of GLP, integrating current global standards, digital trends, and industry-driven case studies. Participants will explore topics such as laboratory documentation, data integrity, safety protocols, validation techniques, and quality assurance frameworks. By the end of the training, learners will not only understand regulatory requirements but will also be equipped with problem-solving tools that enhance laboratory efficiency, reliability, and international recognition.

## Programme Curriculum

**Good Laboratory Practice (GLP) for Laboratories Training Course**

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**Course Objectives**

1. Understand the fundamental principles of Good Laboratory Practice (GLP).
2. Demonstrate compliance with international regulatory standards.
3. Apply effective documentation and record-keeping strategies.
4. Enhance laboratory safety and risk management practices.
5. Implement quality assurance and quality control systems.
6. Evaluate data integrity and reliability in laboratory research.
7. Apply digital tools for laboratory management and monitoring.
8. Strengthen internal audit processes for GLP compliance.
9. Align laboratory operations with ISO and FDA requirements.
10. Identify and mitigate non-compliance risks.
11. Improve laboratory workflow efficiency and accuracy.
12. Conduct GLP-compliant validation and verification procedures.
13. Build capacity for sustainable laboratory accreditation.

**Organizational Benefits**

- Improved laboratory compliance with international GLP standards.
- Enhanced organizational credibility and client trust.
- Streamlined laboratory operations with reduced errors.
- Strengthened regulatory readiness for audits and inspections.
- Increased employee competency in laboratory best practices.
- Better management of laboratory resources and efficiency.
- Strengthened laboratory accreditation opportunities.
- Reduced operational risks and liabilities.
- Improved data reliability for decision-making.
- Enhanced reputation in global scientific and industrial markets.

**Target Audiences**

1. Laboratory Managers and Supervisors
2. Quality Assurance and Quality Control Professionals
3. Research Scientists and Analysts
4. Regulatory Affairs Specialists
5. Compliance Officers
6. Laboratory Technicians and Assistants
7. Health and Safety Officers
8. Professionals preparing for laboratory accreditation

**Course Duration:** 5 days

**Course Modules**

**Module 1: Introduction to Good Laboratory Practice (GLP)**

- History and evolution of GLP standards
- Principles and importance of GLP in laboratories
- Global regulatory frameworks (OECD, FDA, WHO)
- Understanding GLP in industrial and research contexts
- Core elements of GLP systems
- Case study: GLP implementation in a pharmaceutical laboratory

**Module 2: GLP Documentation and Record Keeping**

- Standard Operating Procedures (SOPs) and their role
- Best practices for laboratory notebooks and digital systems
- Ensuring traceability and reproducibility of data
- Compliance with electronic documentation standards
- Archiving and retrieval methods in GLP laboratories
- Case study: Data documentation errors and their consequences

**Module 3: Laboratory Organization and Personnel**

- Roles and responsibilities under GLP
- Training and competency requirements for staff
- Laboratory organization structures
- Accountability in laboratory operations
- Strategies for workforce skill development
- Case study: Role of personnel training in maintaining GLP compliance

**Module 4: Facilities and Equipment Management**

- Design and layout requirements for GLP facilities
- Equipment validation and calibration practices
- Maintenance scheduling and documentation
- Risk assessment in equipment management
- Integrating digital tools in equipment monitoring
- Case study: Equipment failure and GLP audit findings

**Module 5: Quality Assurance and Quality Control Systems**

- Structure and functions of QA units
- Implementing QC protocols in laboratory activities
- Internal audits and inspections
- Root cause analysis of laboratory errors
- Building continuous improvement systems
- Case study: QA/QC frameworks in environmental laboratories

**Module 6: Data Integrity and Reporting**

- Defining and ensuring data integrity in GLP
- Preventing data falsification and manipulation
- Reporting requirements under GLP compliance

- Best practices for secure data storage
- Emerging trends in digital data integrity
- Case study: Data integrity challenges in clinical research

**Module 7: Laboratory Safety and Risk Management**

- Risk assessment frameworks in laboratories
- Emergency preparedness and safety protocols
- Chemical, biological, and physical hazards
- Waste management in GLP laboratories
- Promoting a safety culture in organizations
- Case study: Safety audit in a biotechnology laboratory

**Module 8: Internal Audits and Accreditation**

- Principles of internal audits in GLP laboratories
- Tools and techniques for effective auditing
- Preparing for external accreditation inspections
- Gap analysis and corrective action plans
- Building sustainable accreditation capacity
- Case study: Accreditation journey of a food testing laboratory

**Training Methodology**

- Interactive lectures with real-life examples
- Group discussions and brainstorming sessions
- Hands-on exercises and simulations
- Case study analysis and problem-solving workshops
- Role plays and scenario-based learning
- Pre- and post-training assessments for measuring progress

**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 |
|---|---|---|---|
| **21 Sep 2026** | 25 Sep 2026 | Online | $1,000 |
| **21 Sep 2026** | 25 Sep 2026 | Physical | $1,500 |
| **21 Sep 2026** | 25 Sep 2026 | Physical | $0 |
| **21 Sep 2026** | 25 Sep 2026 | Physical | $0 |
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Ready to enroll or request a customized program? Book online or contact us:

**Register Online Now**

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