

ADVANCED GOOD LABORATORY PRACTICE (GLP): METHOD VALIDATION AND STATISTICAL PROCESS CONTROL

"Enhance laboratory quality and reliability through advanced GLP, method validation, and statistical control techniques"

Schedule

Date	Venue	Fees (Online Training)
14 - 15 Dec 2026	Online	USD 700 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

Introduction

Good Laboratory Practice (GLP) ensures the reliability, integrity, and reproducibility of laboratory data. This 2-day online training provides participants with advanced knowledge and practical skills in method validation, statistical process control (SPC), and GLP compliance to optimize laboratory operations.

Through a combination of theoretical lessons, case studies, and interactive exercises, participants will learn to implement method validation protocols, monitor analytical processes using SPC, and ensure compliance with regulatory standards. By the end of the course, attendees will be able to enhance laboratory efficiency, data quality, and regulatory compliance.

Objectives

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

- Understand GLP principles and regulatory requirements.
- Conduct method validation for analytical procedures.
- Apply statistical process control (SPC) to monitor laboratory processes.
- Identify and correct deviations to ensure reliable laboratory results.
- Improve overall laboratory quality management and compliance.

Why Attend

- Gain practical expertise in method validation and SPC under GLP standards.
- Enhance laboratory data reliability, reproducibility, and compliance.
- Learn to detect and control variations in analytical processes.
- Improve laboratory efficiency and operational quality.
- Network with laboratory and quality assurance professionals.

Target Audience

This program is designed for:

- Laboratory managers, analysts, and quality assurance officers.
- Scientists responsible for method development and validation.
- Regulatory compliance personnel in laboratory operations.
- Professionals aiming to strengthen laboratory quality and control processes.

Individual Benefits

Key competencies that will be developed include:

- Mastery of GLP principles and regulatory compliance.
- Skills in method validation and statistical process control.
- Ability to monitor, analyze, and optimize laboratory processes.
- Improved decision-making for laboratory quality and reliability.

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Enhanced laboratory quality management and compliance with GLP.
- Improved reliability and reproducibility of analytical results.
- Optimized laboratory processes and reduced errors.
- Strengthened overall operational efficiency and regulatory adherence.

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings - GLP standards, method validation, and SPC concepts.
- Case Studies - Real-world laboratory scenarios and lessons learned.
- Workshops - Hands-on exercises in method validation and statistical control.
- Peer Exchange - Group discussions on challenges, solutions, and best practices.
- Tools - Templates, checklists, and frameworks for GLP compliance and SPC monitoring.

Course Outline

Detailed 2-Day Course Outline

Training Hours: 9:00 AM – 4:00 PM (Online) Daily Format: 3–4 Learning Modules | Breaks included

Day 1: Introduction to GLP and Method Validation (09:00 – 04:00)

Module 1: GLP Principles and Regulatory Requirements (09:00 – 11:00)

- Overview of GLP, its importance, and compliance standards.

Module 2: Method Validation Concepts (11:15 – 01:00)

- Validation parameters, procedures, and best practices.

Module 3: Practical Exercises in Method Validation (02:00 – 04:00)

- Hands-on exercises simulating validation of analytical methods.

Day 2: Statistical Process Control (09:00 – 04:00)

Module 4: Introduction to SPC (09:00 – 11:00)

- Principles of statistical process control for laboratories.

Module 5: Monitoring Laboratory Processes (11:15 – 01:00)

- Applying SPC charts, data analysis, and process optimization.

Module 6: Workshops and Case Studies (02:00 – 04:00)

- Practical exercises in SPC and GLP compliance implementation.

Certification

Participants will receive a Certificate of Completion in Advanced Good Laboratory Practice (GLP): Method Validation and Statistical Process Control, validating their expertise in GLP compliance, method validation, and statistical process control for laboratory operations.

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