

## NTHRYS WORKSHOPS.

# Analytical Platform Method Comparison Studies Workshop

### **Workshop Index** Duration: 4 DAYS

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### **Quick Summary**

**Clinical Chemistry Comparative Analysis Data Driven**

**Method Comparison Foundations for Analytical Platform Evaluation**

Understand how method comparison studies support platform validation, result harmonization, and confident laboratory decision-making.

**Platform Validation Result Harmonization**

Review the role of bias, precision, agreement, correlation, and clinical acceptability in analytical platform evaluation.

**Bias Review Clinical Acceptability**

Learn how study planning reduces interpretation errors and improves consistency across instruments and workflows.

**Study Planning Workflow Consistency**

Connect comparative data analysis with quality assurance, verification logic, and method performance review.

**Quality Assurance Performance Review**

Build a structured understanding of sample selection, paired data review, and reporting of comparison outcomes.

**Sample Selection Comparison Outcomes**

## **Overview**

**Platform Evaluation Structured Learning Applied Outcomes**

### Workshop Scope, Audience, and Learning Outcomes

This workshop introduces method comparison as a practical framework for evaluating analytical platforms in laboratory settings.

**Practical Framework Analytical Platforms**

Participants explore study design, paired sample review, agreement assessment, bias interpretation, and reporting structure.

**Study Design Agreement Assessment**

The workshop is relevant for students, analysts, technicians, and laboratory professionals working with comparative platform data.

**Analysts Laboratory Professionals**

By the end of the session, attendees can interpret comparison results and identify acceptable analytical alignment.

**Result Interpretation Analytical Alignment**

Attendees also learn to recognize discordance patterns, systematic bias, and data limitations during evaluation.

**Systematic Bias Data Limitations**

Outcome discussions strengthen documentation habits,

interpretation discipline, and evidence-based platform selection.

**Documentation Habits Platform Selection**

## **Agenda**

**Comparative Metrics Hands On Interpretation Ready**

### **Agenda Structure and Hands-on Demonstrations**

Core modules cover comparison study fundamentals, data pairing logic, bias review, and agreement analysis.

**Data Pairing Agreement Analysis**

Participants review sample range planning, result alignment, outlier awareness, and performance judgment criteria.

**Sample Range Outlier Awareness**

Hands-on demonstrations include paired dataset review, agreement tables, graphical interpretation, and summary reporting.

**Graphical Interpretation Summary Reporting**

Exercises focus on identifying bias direction, clinically relevant difference, and acceptable method agreement.

**Bias Direction Method Agreement**

Case discussions connect platform comparison strategy with verification decisions and analytical confidence.

**Verification Decisions Analytical Confidence**

The session concludes with workflow standardization, documentation review, and interpretation practice guidance.

**Workflow Standardization Interpretation Practice**

## **Deliverables**

**Reference Support Workshop Output Practice Ready**

## Deliverables, Learning Support, and FAQs

Participants receive structured notes on method comparison strategy, analytical evaluation steps, and reporting logic.

**Structured Notes****Reporting Logic**

Reference material summarizes bias review, agreement checks, sample planning points, and interpretation workflow.

**Reference Material****Interpretation Workflow**

FAQ sections explain whether prior statistics knowledge is required and how beginners can follow comparative analysis topics.

**Beginner Friendly****Comparative Analysis**

Additional FAQs address sample volume, acceptable bias review, disagreement handling, and result documentation.

**Disagreement Handling****Result Documentation**

The workshop helps learners strengthen technical judgment for comparing platforms and selecting appropriate methods.

**Technical Judgment****Method Selection**

Participants leave with a clearer framework for comparison planning, analytical review, and evidence-based conclusions.

**Evidence Based****Analytical Review**

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