

## Targeted Proteomics — SRM, PRM and MRM — Hands-on

Learn how to design, optimize and interpret targeted proteomics assays using SRM, PRM and MRM. This module focuses on transition selection, method setup, calibration and QC concepts that support sensitive and precise quantitation of predefined protein and peptide panels for validation and routine applications.

# Targeted Proteomics — SRM, PRM and MRM

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### Session 1

**Fee: Rs 8800** [Apply Now](#)

## Targeted Proteomics Concepts & Assay Types

Why targeted proteomics vs discovery workflows

[hypothesis driven quantitation](#) [biomarker verification](#) [assay robustness and transfer](#)

SRM, PRM and MRM assay families (conceptual view)

[triple quadrupole SRM/MRM](#) [Orbitrap or TOF based PRM](#) [similarities and differences](#)

Use cases and panel types for targeted proteomics

**biomarker panels** **pathway or signature panels** **QC**  
**and system suitability panels**

### **Session 2**

**Fee: Rs 11800** Apply Now

## **SRM/MRM Method Design & Optimization (Concepts)**

Peptide and transition selection principles

**proteotypic peptide concepts** **interference awareness**  
**number of transitions per peptide**

Scheduling and dwell time thinking for SRM/MRM

**retention time windows** **cycle time concepts**  
**balancing multiplexing with data quality**

Calibration curves, LOD/LOQ and linearity (theory level)

**spike in standards idea** **dynamic range concepts**  
**basic acceptance criteria thinking**

### **Session 3**

**Fee: Rs 14800** Apply Now

## **PRM & High-Resolution Targeted Workflows (Concepts)**

PRM basics and comparison with SRM/MRM

**isolation of precursor then full MS/MS** **high**  
**resolution fragment readout** **flexibility for new**  
**transitions post acquisition**

Method structure and scheduling for PRM assays

**inclusion lists concepts** **isolation window choices**  
**cycle time and number of targets**

Data extraction and chromatogram review at concept level

**XIC and peak integration ideas** **transition ratio**

**checks** **basic QC plots for targeted data**

**Session 4**

**Fee: Rs 18800** Apply Now

**Mini Capstone: Targeted Panel Design & Reporting**

Design exercise for a small targeted proteomics panel

**Theory + Practical (planning workflow)**

QC and reporting structure for targeted assays (concept level)

**precision and accuracy summaries** **CVs, blanks and standards overview** **basic report tables and plots**

Deliverables: panel design sheet, method outline and QC checklist

**target and peptide list** **assay concept summary** **QC and acceptance criteria outline**