

Tri-Carb® Liquid LSC**N020-9650****3 Days****Tuition \$1755**

This course presents an overview of the use of liquid scintillation counters (LSC) for quantitative measurement of radioactivity in a wide range of sample types including liquids, solids, filter membranes and surface monitoring (swipes). The theory of nuclear decay, nuclear detection, quench and quench correction, cocktails, cocktail selection and sample preparation methods will be discussed. The course will include laboratory sessions with exercises in protocol setup, quench curve preparation, direct and indirect disintegrations per minute (DPM) measurements, analysis of unknown samples, and instrument performance assessment (IPA). Practical tips and hints on instrument optimization and sample analysis will also be presented.

Lectures and Labs

- Basic nuclear theory
- Basic scintillation counting
- Quench
- DPM determination
- Calibration/normalization
- Spectrum analysis
- Counting region optimization
- Quench curve preparation and setup
- Cocktail selection
- Sample preparation techniques
- Direct DPM methods
- Counting statistics
- Advanced LSC topics
- Analysis of unknown samples
- Cerenkov counting
- Dual-label radionuclide analysis
- Instrument performance assessment

Please visit www.perkinelmer.com/service for registration options and cancellation/refund policies.

Envision/VICTOR**N020-9707****3 Days****Tuition \$1755**

This three-day, intensive laboratory and lecture course will focus on technologies that can be performed on the following three EnVision™ and VICTOR³V™ detection modes: (1) Luminescence, (2) Time-Resolved Fluorescence and (3) Fluorescence Polarization. This course is designed to provide the attendee with an in-depth understanding in regards to the theory, principles, methods, trouble-shooting and instrumentation on PerkinElmer's® principle drug discovery technologies. These technologies include, AlphaScreen™, DELFIA®, LANCE™, [FP]²™, Luminescence Assay Systems and SNP-FP2. Each day will consist of a morning section of technology – focused lectures, and in the afternoon, the attendee will participate in performing a pre-selected application to run in the laboratory (please see the Lectures and Labs section below for more details).

Prerequisite

The attendee should have completed the interactive on-line EnVision Training (http://las.perkinelmer.com/content/onesource/training_academy.html). The attendee should have at least some working knowledge of the VICTOR³V instrument.

Lectures and Labs

- Overview of technology principles, methods and features and benefits of PerkinElmer's principle drug discovery technologies
- Technology specific application and protocol set-up
- Application and instrumentation trouble shooting
- Data analysis and interpretation
- Perform hands-on applications:
 - AlphaScreen – cAMP standard curve
 - Luminescence Assay System – britelite assay
 - DELFIA – Kinase Assay
 - LANCE – Kinase Assay
 - [FP]² – cAMP standard curve
 - AcycloPrime™ -FP – SNP detection assay – SNP assay

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