New service: HID Education Programs

Benefits of training with HID Education Programs

Flexible offerings through HID University

Improved	• Technical knowledge • Confidence
Laboratory	• Quality • Productivity
Performance	• Morale • Retention

HID Education Programs

- Virtual
- Hybrid
- In-person

Theory

Review the theory behind collection, extraction, quantification, amplification, capillary electrophoresis and basic data analysis methods.

Applications

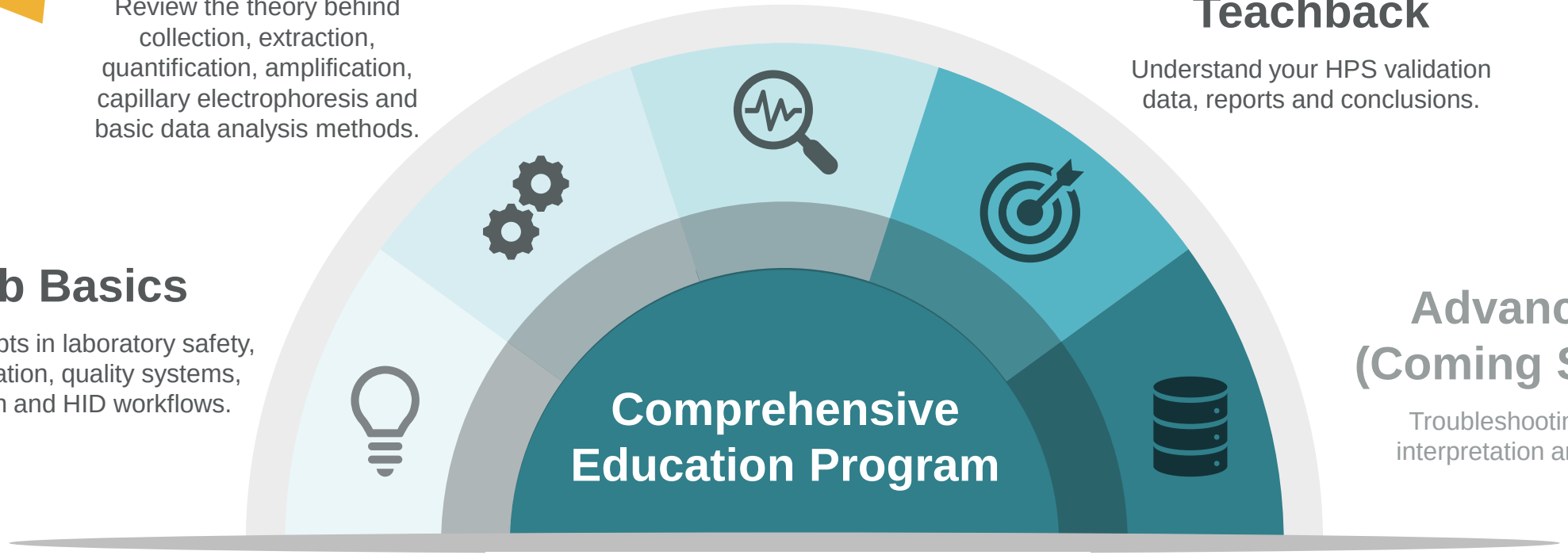
In-depth classroom and hands-on training for AB assays, chemistry, software, and instruments.

Validation Teachback

Understand your HPS validation data, reports and conclusions.

Lab Basics

Key concepts in laboratory safety, contamination, quality systems, validation and HID workflows.



Advanced (Coming Soon)

Troubleshooting, data interpretation and more.

Assemble an education program that meets your lab's needs

Intro to HID Lab	HID workflow theory	Intro to direct amp workflow	Intro to casework workflow	Intro to sex assault sample processing	GMIDX

HID Education Programs: core workflow courses

	HID Lab Basics Review key concepts in HID workflows, equipment, safety, contamination, quality systems and validation	HID Theory Review the theory and concepts behind HID workflow assays, from sample collection through basic STR data analysis	HID Direct Workflow In-depth training on one HID Workflow using Applied Biosystem™ instruments, software, and chemistries. Amplification through data analysis	HID Casework Workflow In-depth training on one HID Workflow using Applied Biosystem instruments, software, and chemistries. Extraction through data analysis	Sexual Assault Evidence Workflow In-depth training on sexual assault sample screening and processing. Includes theory, chemistry, and basic Y-STR data analysis
Virtual-only Self-paced virtual content supplemented with live FAS calls	15-17 hours	15-17 hours	15-17 hours	15-17 hours	7-9 hours
Hybrid Self-paced virtual content with FAS in-person for lab session	*n/a*	*n/a*	15-17 hours virtual + 1-day lab	15-17 hours + 2-days lab	7-9 hours virtual + 2-days lab
In-person In-person laboratory (where applicable) and classroom sessions	3-days	2-days	3-days	1-week	3-days
	Virtual trainings ≤10 people		Classroom trainings ≤10 people; lab trainings ≤6 people		

Courses are listed from basic to complex
For optimal experience, ensure earlier courses have been completed or attendees have equivalent experience

HID Education Programs: breakout courses

Designed for new analysts or refresher training

Most requested breakout courses	**Real-Time PCR** Review RT-PCR instrument hardware, software, calibrations, and maintenance while running samples. Review RT-PCR theory and basic troubleshooting and Applied Biosystems™ HID Real-Time PCR Analysis Software tips and tricks.	**Capillary Electrophoresis** Review instrument hardware, software, calibrations, and maintenance while running samples. Review basic CE troubleshooting and Applied Biosystems™ GeneMapper™ *ID-X* Software tips and tricks.	**GeneMapper *ID-X* Basics** This software overview introduces the workflow, algorithms and quality value system. Example data is used to demonstrate tools that help streamline and improve the forensic data analysis process.	**Introduction to STR Data Analysis** Combine the GeneMapper *ID-X* Basics course with a review of concepts related to electropherograms, basic STR data analysis, and binary thresholds.
Virtual-only Self-paced virtual content supplemented with live FAS calls	*n/a*	*n/a*	8-10 hours	12-14 hours
Hybrid Self-paced virtual content with FAS in-person for lab session	*n/a*	*n/a*	*n/a*	*n/a*
In-person In-person laboratory (where applicable) and classroom sessions	1-day	2-days	*n/a*	*n/a*

Virtual trainings ≤10 people

Classroom trainings ≤10 people; lab trainings ≤6 people

Break a section of the workflow program out for a focused training experience.

SeqStudio Flex CE Training

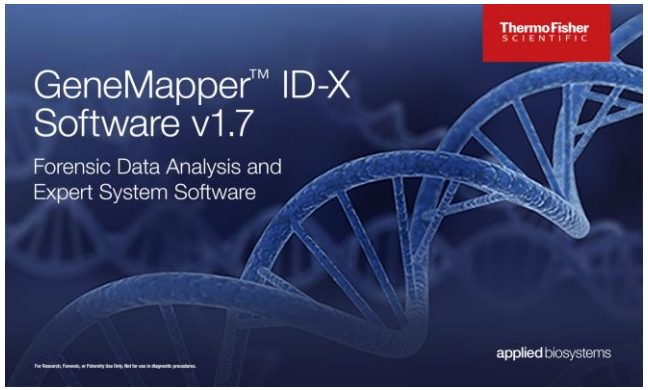
This two-day, in-person Applied Biosystems™ **SeqStudio™ Flex Genetic Analyzer Training** is a mixture of classroom and hands-on lab lessons which review the instrument hardware, software, calibrations, and maintenance. In addition to running and analyzing samples, this course reviews GeneMapper *ID-X* Software tips and tricks and basic CE troubleshooting. **TRN00098**

Upgrade option:

Upgrade the installation training from 1-day operator training to a full 2-day instrument training. TRN00097

Sample Agenda	
Day	Topic
1	Introductions & Logistics
	CE Instrument Overview and Calibrations
	Data Collection Overview
	Lab: Instrument Set Up
	Lab: Calibrate Instrument - Spatial and Spectral
	Instrument Maintenance
	Lab: Configure Software and Run Samples
2	Developmental Validation Review
	GeneMapper *ID-X* Review
	Demo: Data Analysis
	Troubleshooting Review
	Question and Answer Session

GeneMapper *ID-X* Basics of v1.7



This one-day, virtual **GeneMapper™ ID-X Software Basics** course introduces the software workflow, algorithms, and quality value system. Example data is used to demonstrate tools that help streamline and improve the forensic data analysis process, including features of the newest version of the software. This course includes live FAS demonstrations and discussion. **TRN00095**

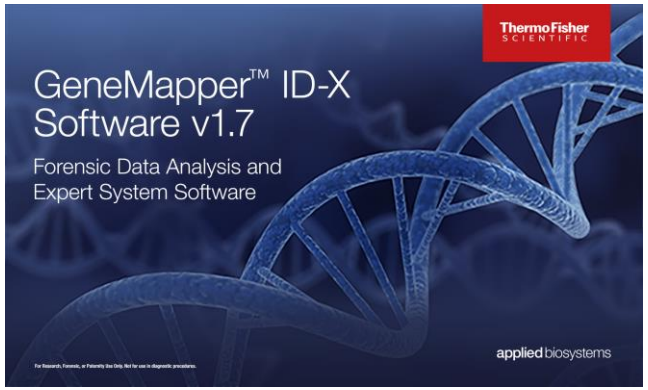
Available Add-on:

Introduction to STR Analysis ~4-hour virtual course. TRN00094

- Capillary electrophoresis and the anatomy of electropherograms
- Basic STR data analysis
- Review binary thresholds
- Live FAS discussion

Sample Agenda	
Day	Topic
1	Introductions & Logistics
	GMIDX Software Overview
	GMIDX Demo: Setting up the Software
	GMIDX Algorithms
	GMIDX Demo: Data Analysis Workflow
	GMIDX Tips and Tricks, v1.7

Coming Soon: Troubleshooting the HID Workflow



This one-day, in-person course introduces systematic problem-solving techniques and strategies to help define, characterize, and solve problems that arise in the HID workflow. Participants will work through real-world troubleshooting exercises using the tools learned in the class.

Expected release date: July 2025

This course is designed for experienced DNA analysts who understand the HID workflow from collection through detection and analysis. Familiarity with Applied Biosystems HID products is helpful but not required.

Sample Agenda	
Day	Topic
1	Introductions & Logistics
	Solution-Focused vs Systematic Troubleshooting
	Troubleshooting Tools
	Workflow-specific examples:
	• Collection, Extraction & Quantification
	• Amplification, Detection & Analysis
	Final Troubleshooting Exercises and Discussion

Thank you