

# Foundational

CELLARIO™ SOFTWARE TRAINING

ENDURINGLY  
CONSTRUCTIVE



HighRes®  
biosolutions

# Master the Basics



It is our distinct honor to instill you with detailed basic knowledge about Cellario™ software. As you apply this valuable knowledge, you are empowered to elevate your workflows to new heights of consistency, efficiency, and throughput.

Join our interactive Cellario software training sessions to develop skills and best practices when creating and executing your unique automated workflows.



### Individualized attention

With small class sizes, up to eight attendees receive individualized attention from our experienced Cellario instructors. Attendees of any skill level, from beginner to advanced, are welcome to attend.



### Remote convenience

Instruction is provided via a live, web-based platform to eliminate personal- and work-related travel disruptions.



### Access now and later

Up to twenty-four hours of interactive Cellario software training is provided over eight days, and each module is recorded. Exercises in each module are downloadable, and all course materials may be accessed for a limited time after training is complete.



### Certificate proof

Each attendee receives a Cellario Software Training Certificate at the end of the course.



### Bespoke options

Private, specialized training sessions are available. Contact your local HighRes Biosolutions Sales Representative for additional information and criteria.



### Register today

As space is limited, early registration is strongly encouraged. Contact your local HighRes Biosolutions Sales Representative to reserve your preferred training session dates. Once registered, attendees will receive an email confirmation with additional information and instructions.

Contact [sales@highresbio.com](mailto:sales@highresbio.com) or your local HighRes Biosolutions Sales Representative for more information or to register for a training session.



# Cellario Software Training

## Basic Session Schedule

2023		2024		Session Times (ET)
Start Date	End Date	Start Date	End Date	
01/09/23	01/18/23	01/02/24	01/11/24	1 - 4 PM
01/23/23	02/01/23	01/15/24	01/24/24	8 - 11 AM
02/06/23	02/15/23	01/29/24	02/07/24	1 - 4 PM
02/21/23	03/02/23	02/12/24	02/22/24	8 - 11 AM
03/06/23	03/15/23	02/26/24	03/06/24	1 - 4 PM
03/20/23	03/29/23	03/11/24	03/20/24	8 - 11 AM
04/03/23	04/12/23	03/25/24	04/03/24	1 - 4 PM
04/17/23	04/26/23	04/08/24	04/17/24	8 - 11 AM
05/01/23	05/10/23	04/22/24	05/01/24	1 - 4 PM
05/15/23	05/24/23	05/06/24	05/15/24	8 - 11 AM
05/30/23	06/08/23	05/20/24	05/30/24	1 - 4 PM
06/12/23	06/21/23	06/03/24	06/12/24	8 - 11 AM
06/26/23	07/05/23	06/17/24	06/27/24	1 - 4 PM
07/10/23	07/19/23	07/01/24	07/11/24	8 - 11 AM
07/24/23	08/02/23	07/15/24	07/24/24	1 - 4 PM
08/07/23	08/16/23	07/29/24	08/07/24	8 - 11 AM
08/21/23	08/30/23	08/12/24	08/21/24	1 - 4 PM
09/04/23	09/13/23	08/26/24	09/05/24	8 - 11 AM
09/18/23	09/27/23	09/09/24	09/18/24	1 - 4 PM
10/02/23	10/11/23	09/23/24	10/02/24	8 - 11 AM
10/16/23	10/25/23	10/07/24	10/17/24	1 - 4 PM
10/30/23	11/08/23	10/21/24	10/30/24	8 - 11 AM
11/13/23	11/22/23	11/04/24	11/13/24	1 - 4 PM
11/27/23	12/06/23	11/18/24	11/27/24	8 - 11 AM
12/11/23	12/20/23	12/02/24	12/11/24	1 - 4 PM
12/18/23	12/27/23	12/16/24	12/27/24	8 - 11 AM

# Basic Session Module 1-2 Descriptions

## MODULE 1

### Key Concepts

- Software architecture, terminology and GUI structure
- Single thread protocol design, basic ordering, and analysis
- Ordering templates
- Import and export protocols

### Exercises

- Design a Cellario single operation protocol
- Place an order for single plate
- Simulate a run
- Launch a simulated run
- Import a Cellario protocol
- Verify and unlock the protocol
- Export a Cellario protocol

## MODULE 2

### Key Concepts

- Protocol versioning and duplication
- Creating simple protocols with a second operation
- Protocols that contain multiple threads
- Generic and resource operation parameter definitions

### Exercises

- Build a simple multiple-operation protocol
- Create a resource assignment with multiple threads
- Generate order templates
- Formulate a generic operation parameter – 'Simulation Time'
- Create a generic operation parameter – 'Resource Pool'

Contact [sales@highresbio.com](mailto:sales@highresbio.com) or your local HighRes Biosolutions Sales Representative for more information or to register for a training session.



# Cellario Software Training

## Basic Session Module 3-8 Descriptions

### MODULE 3

#### Key Concepts

- Resource-specific operation parameters
- Barcode use
- Cellario treatment of dispensing and liquid handling
- Regulating plate transport
- Defining and avoiding deadlocks

#### Exercises

- Formulate resource parameter value lookups
- Build a multi-thread Cellario protocol
- Generate barcode scanning capabilities within a Cellario protocol
- Deploy a 'Merge' operation
- Resolve a simple Cellario deadlock scheduling problem

### MODULE 4

#### Key Concepts

- Lid handling
- Mounting and dismounting operations
- Critical timing functionality
- Looping and the use of virtual plates

#### Exercises

- Deploy the 'Discard', 'Lid' and 'Delid', and 'Mounting' and 'Dismount' operations
- Apply the 'Critical Timings' feature
- Deploy a 'Loop' operation within a Cellario protocol
- Build looping functionality for use with virtual plates

### MODULE 5

#### Key Concepts

- Subroutines
- Protocol parameters
- Cherry-picking
- Using scripts within protocols
- Design and resource filters
- Scheduling multiple runs

#### Exercises

- Build a Cellario subroutine
- Design a Cellario resource protocol parameter
- Create a cherry-picking operation
- Deploy the scripting operation within a Cellario protocol
- Implement design filters within a Cellario protocol

## MODULE 6

### Key Concepts

- Maintenance, Settings and Help menus

### Exercises

- Interpret system notifications

## MODULE 7

### Key Concepts

- Apply understanding from Modules 1-6

### Exercises

- Develop, order and analyze a Cellario protocol for:
  - Echo liquid handler replication
  - HTRF
  - Fixation and immuno-fluorescence labelling
  - Transfection protocol
  - Compound management protocol
  - 384 fix and stain assay

## MODULE 8

### Key Concepts

- Demonstrate understanding from Modules 1-6

### Exercises

- Resolve the deadlock compound addition with media exchange on the Echo liquid handler
- Resolve the deadlock for a plate compression Cellario protocol using a pipettor

Contact [sales@highresbio.com](mailto:sales@highresbio.com) or your local HighRes Biosolutions Sales Representative for more information or to register for a training session.



**HighRes**<sup>®</sup>  
biosolutions

**North American Headquarters**

102 Cherry Hill Drive  
Beverly, MA 01915 USA  
Tele: 781-932-1912

**European Headquarters**

Unit D2, Broadoak Business Park  
Ashburton Road West  
Trafford Park, Manchester  
M17 1RW UK

