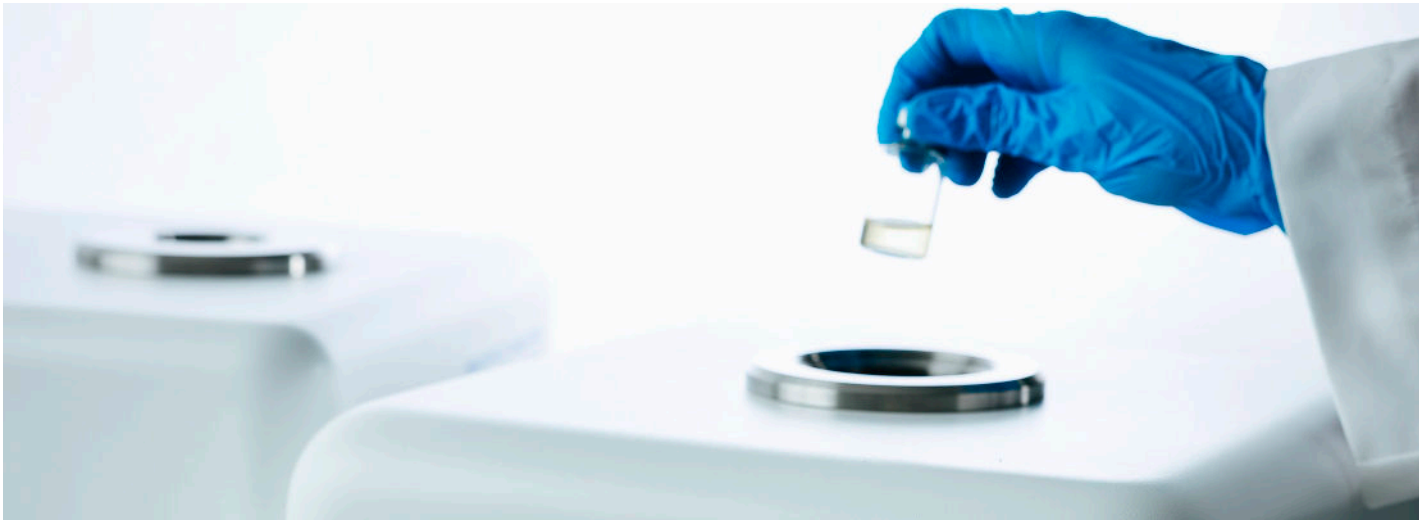


FREE



## Lighthouse Academy: Introduction to Headspace Analysis

Hosted by Lighthouse Instruments



**Join us at one of our one-day seminars designed for pharmaceutical industry professionals.** The session will cover topics such as container closure integrity, oxygen monitoring for oxygen-sensitive pharmaceuticals, media fill inspection, deep cold storage container closure integrity (CCI), and moisture analysis. Enhance your expertise in headspace analysis with practical insights and hands-on demonstrations.

### LOCATION



### Midwest Conference Center July 17, 2025

401 West Lake Street  
Northlake, Illinois 60164

### REGISTRATION INFORMATION

**Cost:** There is no fee for this workshop

**Includes:** Workshop materials, boxed lunch

**Registration Deadline:** One week before the workshop

**To Register:** Use the QR code above or go to [Lighthouse Academy \(Chicago\)](#)

*Note: Limited seats are available, early registration is recommended.*



## Elevate your pharmaceutical analysis skills with expert guidance from Lighthouse Instruments.

We look forward to seeing you there!

SAMPLE AGENDA*	
9:00–10:00	Registration
10:00–11:00	<ul style="list-style-type: none"> <li>• Container Closure Integrity</li> <li>• Introduction to CCI testing</li> <li>• Case studies and practical examples</li> <li>• Hands-on demonstraton</li> </ul>
11:00–11:15	Break
11:15–12:00	<ul style="list-style-type: none"> <li>• Oxygen Monitoring for Oxygen-Sensitive Products</li> <li>• Overview of oxygen headspace analysis</li> <li>• Nitrogen purge optimization case study</li> <li>• Hands-on demonstraton</li> </ul>
12:00–1:00	Boxed lunches Assorted sandwiches and beverages Networking opportunity
1:00–1:45	<ul style="list-style-type: none"> <li>• Moisture Analysis using Headspace</li> <li>• Overview of moisture analysis</li> <li>• Determining correlation to cake moisture</li> <li>• Hands-on demonstraton</li> </ul>
1:45–3:00	<ul style="list-style-type: none"> <li>• Media Fill Analysis</li> <li>• Overview of media fill inspection</li> <li>• Case studies and feasibility data review</li> <li>• Hands-on demonstraton</li> </ul>

### Speaker Biographies



**Tom Millner**

Tom Millner is the VP of Sales for North America at Lighthouse Instruments. Tom has been at Lighthouse since 2011 and has worked in a variety of roles, including quality assurance, technical services, and in the application laboratory. Tom is responsible for the Lighthouse sales team in North America.



**Jay Rowden**

Jay Rowden, a seasoned professional with over 20 years of experience in analytical instrumentation, joined Lighthouse in 2018 as a technical account manager. With an MBA and an undergraduate degree in cellular and molecular biology, Jay excels in guiding customers across the US and Canada to optimal solutions for their headspace testing requirements.



**Rick McDougal**

Rick McDougal serves as the Regional Account Manager for Lighthouse Instruments, overseeing the Southeastern U.S. and Middle North America, from Mexico to Manitoba, Canada. With six years at Lighthouse Instruments and nearly 20 years of experience in scientific sales, Rick specialized in selling chromatography equipment and supplies.