

# Fume Hood Training Course

## Testing, Maintenance and Management

### Agenda - Day 1

Time	Topic/Activity
8:00 - 8:15 a.m.	Welcome and Introduction
8:15 - 8:30 a.m.	Working in the Lab
8:30 - 10:00 a.m.	Factors Affecting Performance of Laboratory Fume Hoods
<b>10:00 - 10:15 a.m.</b>	<b>Refreshment Break</b>
10:15 - 10:45 a.m.	Lab Environment Tests (LETs) and System Operating Mode Test (SOMTs)
10:45 - 12:00 a.m.	<b>LAB 1</b> - Lab Environment Tests (Differential Pressure and Flow Measurement)
<b>12:00 - 1:00 p.m.</b>	<b>Lunch Break</b>
1:00 - 1:30 p.m.	Laboratory Fume Hoods (Design and Operation)
1:30 - 2:00 p.m.	Fume Hood Operational Tests (Face Velocity, Cross Drafts, VAV Operation)
2:00 - 3:00 p.m.	<b>LAB 2</b> - Fume Hood Operational Tests (Face Velocity & Cross Drafts)
<b>3:00 - 3:15 p.m.</b>	<b>Break</b>
3:15 - 3:45 p.m.	<b>LAB 3</b> - Fume Hood Operational Tests (VAV Response & Stability)
3:45 - 4:15 p.m.	Operational Data Analysis
4:15 - 4:30 p.m.	Review and Questions

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### Agenda - Day 2

Time	Topic/Activity
8:00 - 8:15 a.m.	Overview
8:15 - 8:30 a.m.	Review Operational Test Data
8:30 - 9:15 a.m.	Fume Hood Performance Tests (Airflow Visualization & Tracer Gas Tests)
9:15 - 10:00 a.m.	<b>LAB 4</b> - Fume Hood Performance Tests (Airflow Visualization)
<b>10:00 - 10:15 a.m.</b>	<b>Refreshment Break</b>
10:15 - 11:30 a.m.	<b>LAB 5</b> - Fume Hood Performance Tests (Tracer Gas)
11:30 - 12:00	Performance Data Review
<b>12:00 - 1:00 p.m.</b>	<b>Lunch Break</b>
1:00 - 1:30 p.m.	Fume Hood Monitors, VAV Control Techniques and Interaction with Building Automation Systems (BAS)
1:30 - 2:00 p.m.	<b>LAB 6</b> - Fume Hood Performance Tests (Sash Movement and Effect Test, Perimeter Scan)
2:00 - 3:15 p.m.	<b>LAB 7</b> - Troubleshooting Problems
<b>3:15 - 3:30 p.m.</b>	<b>Break</b>
3:30 - 4:00 p.m.	Exam
4:00 - 4:30 p.m.	Review and Questions