



**2010**

## Training Course Catalog

Flow Computers for Gas & Liquid

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Liquid Flowmeters

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Nuclear Level & Density Meters

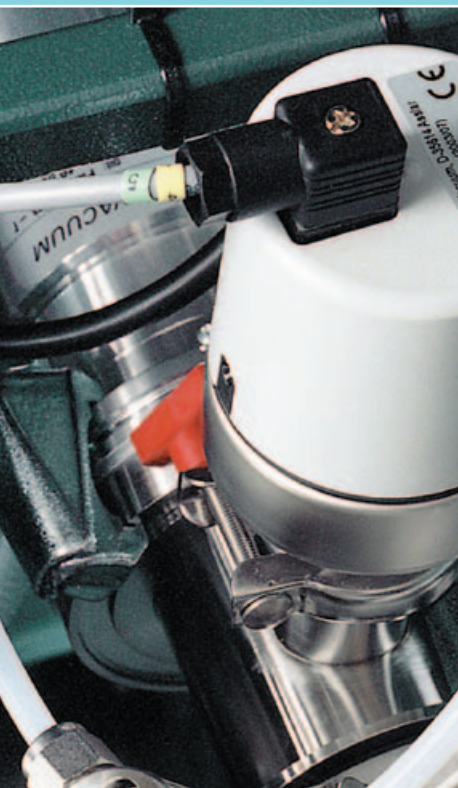
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Process Analyzers

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Radiation Safety

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*“One of the best training classes I have ever attended.”*

*“The manual provided was excellent.”*

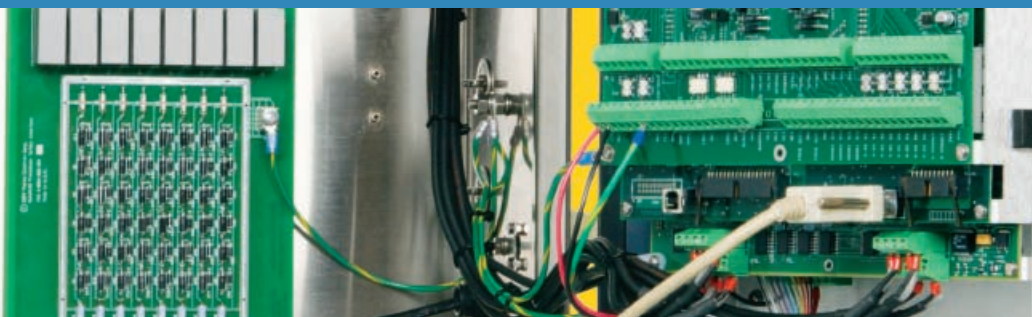
*“The course was targeted to real-life applications and the instructor answered all of my questions.”*

## 2010 Training Course Catalog

### Hands-on instruction for every skill level

Achieving maximum return on your Thermo Scientific instrument requires a thorough understanding of its operation, calibration and maintenance. To expand operator skills and escalate productivity, we offer a series of comprehensive training programs. Participants have the option of hands-on instruction at your plant or a multi-day training session at a Thermo Fisher Scientific site. From basic to advanced, we teach users at every skill level how to operate, maintain and troubleshoot instruments with confidence.

- All registration fees include course materials and lunch.
- The training classes are held in either Sugar Land, Texas or Winsford, England. Classes held exclusively at our Winsford site are designated as U.K. only.
- If you don't see the class you need, please contact our training staff for more information. We strive to always provide outstanding support to our valued customers.



### World-Class Service & Support

Our service and support options are designed to ensure instrument optimization and reduce downtime. Because every customer and every instrument has different requirements, we offer a variety of services to meet your unique needs, including:

- Service agreements
- Spare parts
- Technical support
- Depot repair
- Field installation and service
- Nuclear disposals.

**For more information on our product support and service capabilities, please contact us at:**

- **U.S.:** [service.ps.houston@thermofisher.com](mailto:service.ps.houston@thermofisher.com)
- **U.K.:** [service.process.uk@thermofisher.com](mailto:service.process.uk@thermofisher.com)

## 2010 Training Course Catalog

### Thermo Scientific Gas & Liquid Flow Measurement

Students are expected to be proficient in Microsoft® Windows® and will be provided a gas flow computer (if applicable) and laptop for class use.

#### Sugar Land, Texas

January 19-21, 2010  
March 1-3, 2010  
April 13-15, 2010  
June 7-9, 2010  
July 20-22, 2010  
September 27-29, 2010  
November 8-10, 2010

#### Sugar Land, Texas

March 4-5, 2010  
June 10-11, 2010  
Sept. 30-Oct. 1, 2010  
November 11-12, 2010

#### Sugar Land, Texas

January 26-27, 2010  
June 15-16, 2010  
November 16-17, 2010

#### Sugar Land, Texas

April 22-23, 2010  
June 24-25, 2010  
August 3-4, 2010

#### Sugar Land, Texas

January 12, 2010  
July 29, 2010  
November 4, 2010

#### Winsford, UK

February 10-11, 2010  
November 10-11, 2010

#### Winsford, UK

February 9, 2010  
November 9, 2010

#### Comprehensive Gas Flow Computer Training for the Thermo Scientific AutoPILOT PRO, AutoPILOT, AutoMATE, AutoMITTER and AutoMITTER PRO

Three day session — 4 student minimum/12 student maximum

Learn how to optimize your Thermo Scientific gas flow technology by participating in this comprehensive course. Theory of operation, hardware, Thermo Scientific AutoCONFIG software, communication devices, PLC logic and control, basic maintenance and troubleshooting are covered. In addition, the AutoPILOT PRO section will help participants learn how to maximize the built-in, self-tuning plunger lift algorithms that have proven to increase production by as much as 20%.



#### Advanced Thermo Scientific Gas Flow Computer Training

Two day session — 4 student minimum/12 student maximum

Prerequisites: Comprehensive Gas Flow Computer Training Course

This advanced course is for customers with basic knowledge of Thermo Scientific gas flow technology. The course covers in-depth installation and troubleshooting of flow computer hardware and provides participants with a greater understanding of AutoCONFIG software functionality.

#### Thermo Scientific AutoEXEC Training

Two day session—4 student minimum/12 student maximum

Gain invaluable user insight to get the most from our powerful natural gas and petroleum liquids flow computer. Theory of operation, hardware, hardware installation procedures, compatible metering devices and the Windows version of AutoCONFIG software, as well as basic maintenance and troubleshooting, are covered.

#### Additional Courses Available:

- Thermo Scientific AutoCONFIG Software Training (Windows version)
- Thermo Scientific AutoSCAN Training

### Thermo Scientific Flowmeters

Participants in the following courses will learn the Thermo Scientific flowmeter's application, theory of operation, hardware, setup and operation, various user interfaces, proper maintenance and troubleshooting.

#### Introduction to the Thermo Scientific M-PULSE

Two day session—4 student minimum/12 student maximum

#### Introduction to Thermo Scientific Transit Time Flowmeters

One day session—4 student minimum/6 student maximum

#### Introduction to the Thermo Scientific SX40 (U.K. only)

Two day session—2 student minimum/6 student maximum

#### Open Channel Theory for Thermo Scientific Sarasota 200 and 2000 Flowmeters (U.K. only)

One day session—2 student minimum/10 student maximum



## 2010 Training Course Catalog

### Thermo Scientific Analyzers

#### Sugar Land, Texas

January 20-21, 2010  
March 9-10, 2010  
April 20-21, 2010  
June 22-23, 2010  
July 27-28, 2010  
September 8-9, 2010  
October 12-13, 2010  
December 7-8, 2010

#### Winsford, UK

March 23-25, 2010  
October 19-21, 2010

#### Sugar Land, Texas

February 9-12, 2010  
May 18-21, 2010  
August 17-20, 2010  
November 9-12, 2010

#### Sugar Land, Texas

March 15-19, 2010  
June 7-11, 2010  
Sept. 27-Oct. 1, 2010  
Nov. 29-Dec. 3, 2010

#### Winsford, UK

February 22-26, 2010  
April 12-16, 2010  
May 10-14, 2010  
July 19-23, 2010  
September 6-10, 2010  
November 15-19, 2010

#### Sugar Land, Texas

April 6-7, 2010  
July 6-7, 2010  
October 5-6, 2010

#### Winsford, UK

July 5-9, 2010  
October 11-15, 2010

#### Winsford, UK

March 9-11, 2010  
September 14-16, 2010

#### Introductory Total Sulfur Analyzer Training for the Thermo Scientific SOLA II

*Two day session—4 student minimum/8 student maximum*  
*Prerequisite: Basic understanding of analyzers and associated equipment*

Intended to help students acquire the skills to effectively operate the Thermo Scientific SOLA II, this course covers the fundamentals of application, electronics, operating procedures, diagnostics, software, basic maintenance and troubleshooting.

#### Advanced Total Sulfur Analyzer Training for the Thermo Scientific SOLA II

*Four day session—4 student minimum/8 student maximum*  
*Prerequisite: Previous attendance to Introductory Total Sulfur Analyzer Training for the SOLA II*

This in-depth course gives students extensive knowledge of the SOLA II's electronics/hardware, operating procedures, diagnostics, software, maintenance and troubleshooting. It is geared toward the technician who is responsible for maintaining the instrument and also covers the optional WorkStation software.

#### Introduction to the Thermo Scientific Prima $\delta B$ and Sentinel $\delta B^*$

*Five day session—3 student minimum/6 student maximum*

This course gives students a basic understanding of these advanced Thermo Scientific analyzers, including product fundamentals, electronics, operating procedures, diagnostics, configuration, calibration, basic maintenance and troubleshooting.

*\*The course held in Sugar Land is for the Prima  $\delta B$  only.*

#### Operator Training for the Thermo Scientific Flo-Cal

*One and a half day session—3 student minimum/6 student maximum*

Designed for Thermo Scientific Flo-Cal operators, this course covers application, theory of operation, hardware, configuration and calibration.

#### Operator/Maintenance Training for the Thermo Scientific APIX $\delta Q$ (U.K. only)

*Five day session—2 student minimum/6 student maximum*

This training class simplifies operation of the Thermo Scientific APIX  $\delta Q$  by teaching operating procedures, electronics, software, configuration/calibration steps, and the proper procedures to keep the analyzer up and running.

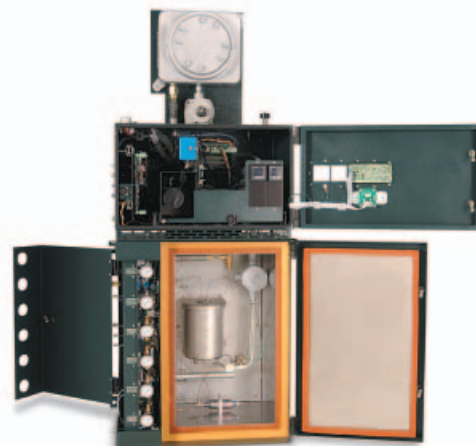
#### Introduction to the Thermo Scientific ProLab (U.K. only)

*Two-and-a-half day session—2 student minimum/6 student maximum*

Learn how to utilize the Thermo Scientific ProLab, our revolutionary gas analysis system. Installation procedures, safe start-up and shut-down procedures, operation, configuration, diagnostics, maintenance and troubleshooting are covered.

#### Additional Courses Available:

- Advanced Principles of Thermo Scientific GasWorks Software for the Prima  $\delta B$
- Operator Training for the Thermo Scientific Tracker XP
- Thermo Scientific GasWorks Applications Software for the Prima  $\delta B$  (U.K. only)
- Introduction to the Thermo Scientific Lab GC and SEG Theory (U.K. only)



## 2010 Training Course Catalog

### Thermo Scientific Level & Density Instruments

Participants at the following lecture and lab courses will learn the Thermo Scientific instrument's application, theory of operation, installation procedures, programming, operation, maintenance and troubleshooting.

#### Winsford, UK

February 10, 2010  
September 17, 2010

#### Sugar Land, Texas

February 23, 2010  
May 11, 2010  
August 24, 2010  
December 2, 2010

#### Sugar Land, Texas

April 27, 2010  
September 1, 2010  
December 1, 2010

#### Sugar Land, Texas

January 14, 2010  
April 8, 2010  
August 5, 2010

#### Sugar Land, Texas

May 27, 2010  
July 8, 2010  
October 26, 2010  
December 9, 2010

#### Sugar Land, Texas

February 25, 2010  
May 13, 2010  
August 26, 2010

Available at  
customer request

#### Introduction to the Thermo Scientific MOLA (U.K. only)

*One day session—2 student minimum/6 student maximum*

Note: This class also includes basic radiation safety techniques.

#### Introduction to the Thermo Scientific KRILPRO

*One day session—4 student minimum/8 student maximum*

Note: This class also includes basic radiation safety techniques.

#### Operator Training for the Thermo Scientific LevelPRO

*One day session—4 student minimum/12 student maximum*

#### Operator Training for the Thermo Scientific DensityPRO+

*One day session—4 student minimum/8 student maximum*

#### Operator Training for the Thermo Scientific DensityPRO-C

*One day session—4 student minimum/8 student maximum*

#### Fundamentals of the Thermo Scientific SGDO Gauge

*One day session—4 student minimum/8 student maximum*

#### Thermo Scientific Coker Hybrid System Training

*Five day session—Held at Customer's Site—4 student minimum/8 student maximum per class*

Experience a comprehensive overview of the Thermo Scientific Coker Hybrid System. This course includes operator training for the Thermo Scientific KRILPRO and the LevelPRO (with vapor density compensation). In addition to covering the gauges' applications, principles of operation, hardware, hardware installation procedures, programming, maintenance and troubleshooting techniques, your trainer will conduct an on-site evaluation of your installation and overall usage of the hybrid system to ensure instrument optimization.

#### Additional Courses Available:

- Fundamentals of the Thermo Scientific DensityPRO
- Introduction to the Thermo Scientific KRIL



## 2010 Training Course Catalog

# Thermo Scientific Radiation Safety Training

### Sugar Land, Texas

January 25-29, 2010

March 22-26, 2010

May 3-7, 2010

June 14-18, 2010

August 9-13, 2010

September 13-17, 2010

November 15-19, 2010

December 13-17, 2010

### Sugar Land, Texas

February 16-18, 2010

July 13-15, 2010

October 19-21, 2010

Available at  
customer request

Available at  
customer request

### Radiation Safety Officer Training

*Five day (40 hour) session—6 student minimum*

This hands-on training addresses radiation physics, biological effects of radiation exposure, radiation detection and protection, dosimetry, licensing and regulatory compliance requirements. Students also learn proper gauge installation, relocation, surveying and leak testing. After successful completion, the student will be listed as a Radiation Safety Officer on their company's radioactive material license. Registration fee includes a scientific calculator and training video.

### Radiation Safety Training Refresher

*Two-and-a-half day (20 hour) session—6 student minimum*

This course is designed to update Radiation Safety Officers on recent radiation issues, including atomic physics, biological effects, radiation safety, industrial applications, and the latest transportation and regulatory requirements.

### Authorized User Radiation Safety Training

*One day (8 hour) session—6 student minimum*

This course is an introduction to radiation safety and covers basic atomic physics, biological effects, radiation safety, industrial applications, transportation and regulatory requirements related to dose limits, transportation, etc. Gain hands-on experience by participating in a leak test sample collection and a radiation survey performance. This course is ideal for safety professionals, emergency responders and instrument technicians whose job entails a high degree of contact with nuclear gauges.

### Introduction to Radiation Safety Training

*Half-day (4 hour) session—6 student minimum*

This course provides an excellent overview of radiation safety practices for all employees who work on or around nuclear gauges. It addresses concepts such as radiation terminology, time, distance, shielding and regulatory requirements.



# 2010 Training Course Schedule by Month

## January

12	Introductory Flowmeter Training
14	DensityPRO+ Training
19-21	Gas Flow Computer Training
20-21	Introductory SOLA II Training
25-29	Radiation Safety Officer Training
26-27	AutoEXEC Training

## February

9	Open Channel Flowmeter Training (U.K.)
9-12	Advanced SOLA II Training
10	MOLA Training (U.K.)
10-11	SX40 Training (U.K.)
16-17	Intro to Lab GC/SEG Theory (U.K.)
16-18	Radiation Safety Training Refresher
22-26	Prima $\delta$ B and Prima 600S Training (U.K.)
23	KRILPRO Training
25	SGDO Training

## March

1-3	Gas Flow Computer Training
4-5	Advanced Gas Flow Computer Training
9-10	Introductory SOLA II Training
9-11	ProLab Training (U.K.)
15-19	Prima $\delta$ B Training
22-26	Radiation Safety Officer Training
23-25	Introductory SOLA II Training (U.K.)

## April

6-7	Flo-Cal Operator Training
8	DensityPRO+ Training
12-16	Prima $\delta$ B and Prima 600S Training (U.K.)
13-15	Gas Flow Computer Training
20-21	Introductory SOLA II Training
22-23	M-PULSe Training
27	LevelPRO Operator Training

## May

3-7	Radiation Safety Officer Training
10-14	Prima $\delta$ B and Prima 600S Training (U.K.)
11	KRILPRO Training
13	SGDO Training
18-19	GasWorks Software for the Prima $\delta$ B Training (U.K.)
18-21	Advanced SOLA II Training
27	DensityPRO-C Training

## June

7-9	Gas Flow Computer Training
7-11	Prima $\delta$ B Training
10-11	Advanced Gas Flow Computer Training
14-18	Radiation Safety Officer Training
15-16	AutoEXEC Training
22-23	Introductory SOLA II Training
24-25	M-PULSe Training

## Available at Customer Request

- Specific date requests are accepted on standard courses listed in this catalog.
- All standard courses listed in this catalog can be conducted at a customer's facility.
- Customized training courses upon request.

## July

5-9	APIX $\delta$ Q Training (U.K.)
6-7	Flo-Cal Operator Training
8	DensityPRO-C Training
13-14	Intro to Lab GC/SEG Theory (U.K.)
13-15	Radiation Safety Training Refresher
19-23	Prima $\delta$ B and Prima 600S Training (U.K.)
20-22	Gas Flow Computer Training
27-28	Introductory SOLA II Training
29	Introductory Flowmeter Training

## August

3-4	M-PULSe Training
5	DensityPRO+ Training
9-13	Radiation Safety Officer Training
17-20	Advanced SOLA II Training
24	KRILPRO Training
26	SGDO Training

## September

1	LevelPRO Operator Training
6-10	Prima $\delta$ B and Prima 600S Training (U.K.)
8-9	Introductory SOLA II Training
13-17	Radiation Safety Officer Training
14-16	ProLab Training (U.K.)
17	MOLA Training (U.K.)
21-22	GasWorks Software for the Prima $\delta$ B Training (U.K.)
27-29	Gas Flow Computer Training
27-01	Prima $\delta$ B Training
30-01	Advanced Gas Flow Computer Training

## October

5-6	Flo-Cal Operator Training
11-15	APIX $\delta$ Q Training (U.K.)
12-13	Introductory SOLA II Training
19-21	Introductory SOLA II Training (U.K.)
19-21	Radiation Safety Training Refresher
26	DensityPRO-C Training

## November

4	Introductory Flowmeter Training
8-10	Gas Flow Computer Training
9	Open Channel Flowmeter Training (U.K.)
9-12	Advanced SOLA II Training
10-11	SX40 Training (U.K.)
11-12	Advanced Gas Flow Computer Training
15-19	Prima $\delta$ B and Prima 600S Training (U.K.)
15-19	Radiation Safety Officer Training
16-17	AutoEXEC Training
29-03	Prima $\delta$ B Training

## December

1	LevelPRO Operator Training
2	KRILPRO Training
7-8	Introductory SOLA II Training
9	DensityPRO-C Training
13-17	Radiation Safety Officer Training

## Registration

Register by mailing a completed registration form to the address below or use our online registration form at [www.thermo.com/processtraining](http://www.thermo.com/processtraining). You may also register by contacting our Customer Training Manager at the phone number or email address listed below. Registrations are processed in the order received.

## Confirmation

Upon registration, each student will receive a registration acknowledgement, hotel information and directions to the training facility.

## Pricing & Payment

To ensure accurate processing, please complete all information requested on the registration form. Visa, MasterCard and American Express as well as pre-payment checks, purchase orders (net 30 terms) and wire transfers are accepted. Please contact us for more details.

## Course Schedule

All courses are scheduled to begin at 8:30 am each day and finish around 4:30 pm, unless otherwise noted in your confirmation letter. Please arrive at our facility no earlier than 8:00 am. If you will travel to attend the training, please make appropriate arrangements that will allow you to attend the entire training. Students are responsible for their own travel and hotel arrangements.

## Cancellation Policy

Thermo Fisher reserves the right to cancel any course approximately 10 days prior to its scheduled date due to insufficient enrollment. Thermo Fisher is not responsible for expenses incurred if a course is cancelled.

Customers who cancel 10 calendar days in advance of a scheduled date will not be charged. Customers who cancel less than 10 calendar days in advance of the class will be charged as if they attended.

## Language

All courses and training materials are presented in English. Please contact us for pricing regarding material translation.

## Contact

Thermo Fisher Scientific  
Process Instruments  
Customer Training Manager  
1410 Gillingham Lane  
Sugar Land, Texas 77478

[training.process@thermofisher.com](mailto:training.process@thermofisher.com)  
+1 (800) 437-7979  
+1 (713) 272-0404 direct  
[www.thermo.com/processtraining](http://www.thermo.com/processtraining)

# 2010

## Course Registration Information and Form

Thermo Fisher Scientific  
Process Instruments  
Customer Training Manager  
1410 Gillingham Lane  
Sugar Land, Texas 77478

training.process@thermofisher.com

+1 (800) 437-7979 toll-free  
+1 (713) 272-0404 direct

### Register now at:

[www.thermo.com/processtraining](http://www.thermo.com/processtraining)

### Registration

Register by mailing your completed registration form to the address above or use our online registration form at [www.thermo.com/processtraining](http://www.thermo.com/processtraining). You may also register by contacting our Customer Training Manager at the phone number or email address listed above. Registrations are processed in the order received.

### Pricing

Registration fee includes one set of course materials and lunch, with lunch provided for classes held at our facilities only. We reserve the right to change pricing without notice.

### Confirmation

Upon registration, each student will receive a confirmation packet that includes a registration acknowledgement, hotel information, and directions to the training facility.

### Cancellation Policy

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# sign me up

### Enrollment Information

Course Title \_\_\_\_\_

Course Date \_\_\_\_\_

Course Location \_\_\_\_\_

Course Cost \_\_\_\_\_

### Student Information

Student's Name \_\_\_\_\_

Student's Phone Number \_\_\_\_\_

Student's Fax Number \_\_\_\_\_

Student's E-mail Address \_\_\_\_\_

### Company Billing Information

Company Name \_\_\_\_\_

Company Billing Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_ ZIP Code \_\_\_\_\_

Billing Contact's Name \_\_\_\_\_

Billing Contact's E-mail Address \_\_\_\_\_

Billing Contact's Phone Number \_\_\_\_\_

Billing Contact's Fax Number \_\_\_\_\_

### Method of Payment

Check (make payable to Thermo Process Instruments, L.P.)

Purchase Order (state vendor as Thermo Process Instruments, L.P.; hard copy required)

Credit Card:

Visa  MasterCard  American Express

Name on Card \_\_\_\_\_

Credit Card Number \_\_\_\_\_

Expiration Date \_\_\_\_\_

**Process Instruments**

**North America**

Customer Training Manager  
1410 Gillingham Lane  
Sugar Land, Texas 77478 USA

training.process@thermofisher.com  
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**United Kingdom**

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[www.thermo.com/processtraining](http://www.thermo.com/processtraining)