






Course title	Classroom	Online	Contents
	For more information scan QR code		
SC-G-LASR		1 day ADV 	<p>LDS 6/ SITRANS SL Refresher Last changes to In-Situ Gas Analyzer LDS 6 and SITRANS SL</p> <p>Review basics: LDS 6 Assembly / How to open a "Support Ticket" / How to use PIA Lifecycle Portal</p> <p>Course-specific review: Operation, parameters, maintenance software / LDS Com Log File interpretation / Preventive maintenance / Error diagnosis and fixation</p> <p>Requirement: The participants are required to have attended the CGA basic course SC-G-LAS.</p>
SC-S-EXBA	0,5 day BAS 	0,5 day BAS 	<p>Explosion protection basic Basics of an explosion: Preconditions for an explosion / Potential sources of ignition / Protection against explosions</p> <p>Types of protection: Overview / Flameproof enclosure Ex d / Pressurized enclosure Ex p / Increased safety Ex e / Intrinsic safety Ex I / Encapsulation Ex m / Zone separation, Zone 0 / Type of protection for Zone 2 Ex n / Protection by enclosure (dust) Ex t / Protection of non-electrical devices</p> <p>Explosion protection in North America (special features): Special features of the Class Division model</p> <p>Application in hazardous locations: Selection of equipment / Zone 0</p>
SC-S-EXUS	0,5 day BAS 	0,5 day BAS 	<p>Explosion protection for user Basics: Overview types of protection / Definitions and characteristic quantities / Marking</p> <p>Requirements for application: Preconditions for application / Explosion protection document / Zone separation / Device selection</p> <p>Application of equipment: Flameproof enclosure (Ex d) and increased safety (Ex e) / Pressurized enclosure (Ex p) / Intrinsic Safety (Ex i) exercises</p>

Training for process analytics

From individual analyzers up to customized system solutions, Siemens offers a complete bandwidth of modern process analytics for all kinds of industries, processes and applications. However, the performance and availability of modern analyzers and systems can only be fully utilized and turned into economic success in association with knowledgeable and application-oriented exploitation. Therefore, Siemens process analytics supplements its device and system offering by a comprehensive training program for planning, operating and maintenance personnel.

The courses are modular and cover the complete range of analytical devices used in process gas chromatography and continuous gas analysis. In general, the courses cover the physical measuring technology as well as the constructive design and practical use of the devices, including extensive practical exercises on the devices and their components. The contents of the courses are additionally supported by systematic recapping and checking of success.

The main training site is Siemens Training Center Europe in Karlsruhe but we also offer training at the customer's site. Since the courses are limited to a small number of participants, there is room for individual topics that may not be covered in the set program.

State-of-the-art and convenient – Interactive live online trainings.

We are happy to announce a new offering. Interactive live online training with hands-on exercises transmitted via live streaming in HD quality.

The trainings are done online via camera-streaming supported by interactive software. During the interactive live session, no pre-recorded videos will be used. The aforementioned training content will be demonstrated live by a trainer, and participants see and learn exactly the same content as they would in a face-to-face training session. Of course, the interactive session offers the same advantages as the classroom trainings: Exchange with the other course participants or clarification of questions.

This leaflet provides an overview of our courses.

The prices quoted include the course itself, the course documentation as well as drinks and catering during the event.

Other costs such as for travel and accommodation are not included. The prices are subject to VAT.

Please note that some courses are the prerequisite for taking follow-up courses.

Additional information around our training program can be found at:
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PROCESS ANALYTICS

Continuous gas analysis

Trainings
siemens.com/processanalytics

SIEMENS

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For more information scan QR code			
SC-G-OXYU	3 days BAS 	5 days BAS 	OXYMAT 6 / OXYMAT 61 / ULTRAMAT 6 / ULTRAMAT 23 Physical measurements, paramagnetism and infrared absorption according to the NDIR single and double beam principle / Measurement of oxygen / Micro flow sensor, reference gas / Measurement of infrared active gases / Structure and function of analyzers controlled by microprocessors / Construction and function of microprocessor controlled analyzers / Oxygen sensor, infrared sensor and electrochemical oxygens cell / Operation, parameters and maintenance software / Commissioning and use of OXYMAT 6, OXYMAT 61, ULTRAMAT 6 and ULTRAMAT 23 Infrared cells and phase adjustment / Preventive maintenance / Failure diagnosis and remedy / Practical exercises in the laboratory Requirement: General knowledge of electrical engineering.
SC-G-UL23	2 days ADV 	3 days ADV 	ULTRAMAT 23 Infrared absorption according to the NDIR principle / Micro flow sensor / Measurement of infrared active gases and oxygen / Structure and function of analyzers controlled by microprocessors / Single beam infrared cells / Electrochemical oxygen cell / Commissioning and use of the ULTRAMAT 23 / Preventive maintenance / Failure diagnosis and remedy / Practical exercises in the laboratory Requirement: Basic knowledge of process analysis / General knowledge of electrical engineering.
SC-G-ULT6	2 days ADV 	3 days ADV 	ULTRAMAT 6 Infrared absorption according to the NDIR principle, micro flow sensor / Measurement of infrared active gases / Split beam infrared cell, phase adjustment / Structure and function of analyzers controlled by microprocessors / Commissioning and use of the ULTRAMAT 6 / Preventive maintenance / Operation, parameters, maintenance software, failure diagnosis and remedy / Practical exercises in the laboratory Requirement: Basic knowledge of process gas analytics / General knowledge of electrical engineering.
SC-G-LAS	3 days BAS 		LDS 6 / SITRANS SL Principles of laser diode spectroscopy / In situ measurement of gases / Customer specific application requirements / Structure of the analyzer LDS 6, fiber optics / Structure of the analyzer SITRANS SL / Software, operation and parameters / Sensor alignment and transmission / Diagnostics, preventive maintenance / Version for hazardous areas / Remote control software and diagnostics via modem Requirement: Basic knowledge of gas analytics / General knowledge of electrical engineering.
SC-G-FID	2 day BAS 	3 days BAS 	FIDAMAT 6 Physical principles for the detection of hydrocarbons / Flame ionization, hydrocarbons in the gas phase / Structure and function of analyzers controlled by microprocessors / The software and its parameters / Pneumatic structure of the analyzer and of the sample preparation system / Start up and use of the FIDAMAT 6 / Preventive maintenance / Failure diagnosis and remedy / Practical exercises in the laboratory Requirement: Basic knowledge of process analytics / General knowledge of electrical engineering.

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For more information scan QR code			
SC-G-GA7	2 days BAS 	3 days BAS 	SIPROCESS GA700 (modular device system): OXYMAT 7 / ULTRAMAT 7 / CALOMAT 7 Modular gas analyzer / Presentation of modular structure (incl. place of installation) system / Subsystem / Rack- and wall-mounted housings / Analyzer modules OXYMAT 7, ULTRAMAT 7, CALOMAT 7, incl. introduction into principle of measurement / Options startup of a complete system (installation, wiring, configuration, ...) / Local user interface / Basic setting and quick-start menu / Service levels / Structure of menu / Calibration / Preventive maintenance Requirement: Basic knowledge of process analytics / General knowledge of electrical engineering.
SC-G-UV600	2 days BAS 		SIPROCESS UV600 operation and maintenance Principle of operation and technical data / Hardware variants / Calibration cell, gas modules / I/O module / Structure of user interface / First setup, initial configuration / Diagnostics / Repair, operation and maintenance of the PC / Parameter setting with Sopas ET (incl. installation) / Integration SDD / Connection / Access level / Live – view / Data backup / Software upgrade Requirement: Basic knowledge of process analytics / General knowledge of electrical engineering.
SC-G-OXYR		1 day ADV 	OXYMAT 6 / OXYMAT 61 / ULTRAMAT 6 / ULTRAMAT 23 REFRESHER Last changes to Oxymat 6 Review basics: Calibration / How to open a "Support Ticket" / How to use PIA Lifecycle Portal Course-specific review: Operation, parameters, maintenance software / Preventive maintenance / Error diagnosis and fixation / Spare parts order Requirement: The participants are required to have attended the CGA basic course SC-G-OXYU.
SC-G-U23R		1 day ADV 	ULTRAMAT 23 Refresher Last changes to ULTRAMAT 23 / U23 DTC Review basics: Calibration / How to open a "Support Ticket" / PIA & SIOS Course-specific review: Operation, parameters, maintenance software / Preventive maintenance / Error diagnosis and fixation Requirement: The participants are required to have attended the CGA basic course SC-G-UL23.
SC-G-UL6 R		1 day ADV 	ULTRAMAT 6 Refresher Last changes to ULTRAMAT 6 Review basics: Calibration / How to open a "Support Ticket" / PIA & SIOS Course-specific review: Operation, parameters, maintenance software / Preventive maintenance / Error diagnosis and fixation Requirement: The participants are required to have attended the CGA basic course SC-G-ULT6.