

# ABB Australia Measurement and Analytics Z2304 ABB CGA Operational and Maintenance Training

## Overview

Part of the global initiative program by ABB is to ensure all ABB customers are adequately trained on the products and equipment supplied to users. ABB Australia is committed to this global initiative and are running a training course on the continuous gas analysers (CGA) operational and maintenance for customers in Australia.

This is an instructor led workshop with short presentations and demonstrations, extended exercises and hands-on sessions and discussions. Approximately 35% of the course is hands-on lab run activities.

## Course Duration

2 days.

## Learning Objectives

Upon completion of the course, participants will be competent and confident in working with continuous gas analysers

## Training Location

ABB Australia  
Measurement and Analytics Training Centre  
Bapaume Road, Moorebank, NSW

## Training class hours & Refreshments

9.00am - 4.00pm - Light lunch and refreshments will be supplied during training.

## Materials

Training equipment, materials and manuals will be supplied by ABB Australia. However candidates are required to bring with them a laptop for practical exercise. (Admin rights required to install SMT, TCT and HMI software)

## Class Size

5 people (Each participant will have an access to CGA analyser)



## Course Fee & Inclusions

Please contact your local representative

## Trainer

Johan Van Staden  
Lead Process Analytics Engineer - CGA  
Measurement and Analytics  
Process Automation Division  
ABB Australia

- Electrical Engineering background
- 15 years+ of field experience on continuous gas analysers and analytical instrumentation

## Available Dates

Please contact your local representative

## Contact Us

For more information please contact:

ABB Australia Contact Centre: 1800 222 435

# ABB Australia Measurement and Analytics

## Z2304 ABB CGA Operational and Maintenance Training

### Who Should Attend

The training is intended for end user analyser technicians, operators or engineers responsible for the operation of the Z2304 continuous gas analyser

### Course Objectives

Upon completion of this course the participants will be able to:

- Maintain the analyser system for optimal performance
- Calibrate CGA analyser
- Interpret analyser readings for desired system performance
- Interpret status messages and alarms to help identify system conditions
- Disassemble and reassemble system hardware
- Understand SMT, TCT and HMI software packages

### Course Content Outline

#### Day 1

- Introduction
- Basic Principles – analyser modules (Magnos, Limas, Uras, O<sub>2</sub> Zr sensor – measurement principle, design, hardware components)
- Hand's-on Exercise
- Basic Principles – gas sampling systems (PFE3 / SCC-C/ SCC-F)
- HMI Interface - Software operation, alarm / status messages
- Hand's-on Exercise

#### Day 2

- Sample System – Emissions Monitoring / Legislation (EN14181, QAL1, QAL2, QAL3)
- Maintenance and Testing Process
- Calibration / Validation procedures
- Hand's-on Exercise
- Additional software: HMI, SMT and TCT
- Troubleshooting / Fault-finding Techniques
- Disassemble and reassemble system hardware
- Hand's-on Exercise
- Analyser / System Maintenance



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## REGISTRATION FORM

### COMPANY DETAILS

Company Name:	_____	Mailing Address:	_____
ABN:	_____		_____
Phone Number:	_____	Please Check One:	<input type="checkbox"/> Customer
Fax Number:	_____		<input type="checkbox"/> Representative
Email Address:	_____		<input type="checkbox"/> Internal Staff

### CLASS RESERVATION

Date of Class:	_____	Level of Experience with CGA's
Preferred Location:	_____	(Please Check One):

1:	Name of Individual: _____	<input type="checkbox"/> < 1 year
	Contact Number: _____	<input type="checkbox"/> > 5 years
	Email Address: _____	<input type="checkbox"/> Expert
2:	Name of Individual: _____	<input type="checkbox"/> < 1 year
	Contact Number: _____	<input type="checkbox"/> > 5 years
	Email Address: _____	<input type="checkbox"/> Expert
3:	Name of Individual: _____	<input type="checkbox"/> < 1 year
	Contact Number: _____	<input type="checkbox"/> > 5 years
	Email Address: _____	<input type="checkbox"/> Expert
4:	Name of Individual: _____	<input type="checkbox"/> < 1 year
	Contact Number: _____	<input type="checkbox"/> > 5 years
	Email Address: _____	<input type="checkbox"/> Expert
5:	Name of Individual: _____	<input type="checkbox"/> < 1 year
	Contact Number: _____	<input type="checkbox"/> > 5 years
	Email Address: _____	<input type="checkbox"/> Expert

### Notes for Training Courses

To confirm a slot for candidates class please forward us your completed registration form as soon as possible.