

EMISSIONS MONITORING WEBINAR

Stack Monitoring

21th September 2020 13:00-16:00- Online Webinar Part 1

22th September 2020 13:00-16:00- Online Webinar Part 2

17th November 2020 13:00-16:00- Online Webinar Part 1

18th November 2020 13:00-16:00- Online Webinar Part 2

WHAT IS THE WEBINAR ABOUT?

This webinar will cover the stack monitoring methods and techniques (periodic and continuous) to be considered when: setting permit emissions control conditions under Environmental permitting regulations, and subsequently demonstrating compliance with them. We will: provide delegates with a comprehensive introduction to air emissions monitoring; identify the measurement and sampling techniques to use; identify the standards to apply; identify the calibration procedures, and quality assurance & control schemes used; and describe how to ensure that monitoring has been undertaken suitably and reported correctly.

On completion of the seminar attendees will:

- Appreciate the principles of measuring emissions to air and understand what is representative sampling;
- Understand the differences between manual and instrumental techniques in relation to periodic stack monitoring;
- Understand the key principles in relation to continuous monitoring and the importance of calibration and quality assurance, in order to provide accurate data;
- Understand the fundamental guidance and standards that govern emissions monitoring and appreciate the quality assurance aspects of monitoring for regulatory compliance.

WHO IS THIS WEBINAR FOR?

This seminar will help newly-appointed or transferred officers acquire the knowledge of periodic emissions monitoring necessary to implement LA-IPPC and LA-PPC monitoring compliance; it is also suitable as a refresher for more experienced officers operating under the Environmental Permitting (England & Wales) Regulations.

Queries will be dealt with during the course and, in addition, attendees may forward questions prior to the course to emaq@ricardo-aea.com.

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COURSE PROGRAMME

Day 1

13.00	Welcome and Introduction	<ul style="list-style-type: none">• Introduce the structure of the day, and the key areas that will be covered
13.15	Session 1: Introduction to Stack Monitoring	<ul style="list-style-type: none">• What is Stack Monitoring – Principles of emissions testing• Why do we have to monitor - Legislative requirements through LA-IPPC and LA-PPC
13.30	Session 2: Periodic Monitoring – Manual Extractive Methods	<ul style="list-style-type: none">• Introduction to Periodic manual extractive methods• Measurement steps and sampling equipment• Conversions to Reference Conditions
14:15	Refreshment Break	
14:30	Session 3: Periodic Monitoring – Instrumental Methods	<ul style="list-style-type: none">• Introduction to Instrumental monitoring systems• Typical Instrumental Sampling arrangements• Principles of Instrumental Measurement
15:00	Session 4: Quality Assurance	<ul style="list-style-type: none">• Role of quality assurance in Periodic Stack Monitoring• Importance of Accreditation (MCERTS)
15:30	Open discussion	
16:00	Day 1 close	

Day 2

13.00	Recap from Day 1	
13.15	Session 5: Continuous Monitoring – CEM Principles	<ul style="list-style-type: none">• Introduction to the role of Continuous Emission Monitoring (CEM) systems when they are required• Principles of measurement for common CEM systems
14:00	Session 6: Continuous Monitoring – CEMs Calibration	<ul style="list-style-type: none">• Importance of Calibration in relation to CEM systems• The different Quality Assurance levels that are associated with CEM systems
14.45	Refreshment Break	
15.00	Session 7: Technical Guidance	<ul style="list-style-type: none">• Monitoring Technical Guidance Notes• Monitoring Quick Guides• Role of Competent Authorities
15.30	Concluding discussions and questions	
16:00	Close	

NOTE: A CPD Certificate for each delegate will be available after the webinar.

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YOUR TRAINERS

Alan Leonard



Alan Leonard has over twenty-five years' experience in environmental consultancy and provides support and guidance for industry and regulators. He has been involved in the measurement and optimisation of emissions from a wide range of stationary sources. As a consequence, Alan has developed a technical knowledge of measurement procedures and of processes. He has particular experience in characterising emissions and has provided consultancy on combustion emissions and emission monitoring to UK Government, Industry and overseas clients. In addition, his knowledge includes the associated regulation used to regulate these processes. Also he has been involved in producing guidance documents and training for the United Kingdom Environment Agency and a number of private sector operators.

Andy Collins



Andy Collins is a senior consultant in our Environmental Evidence and Data Practice. He has over 13 years air quality & emissions experience across consultancy and regulation, with 7 years of these relating to the periodic monitoring of pollutants to atmosphere from Part A1, A2 and Part B installations. He currently specialises in emissions to air from stationary (industrial) sources and ambient air quality. His roles have included advising national teams on the relevant standards & guidance for monitoring at regulated industrial installations, as well as auditing and assessing operators permits and monitoring provisions. He has developed and delivered monitoring training within Regulatory Agencies, and been a keynote speaker on Permitting, Monitoring & EU Directives topics at academic institutions, as well as sitting on the MCERTS personnel examination board for Level 2 Interviews.

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BOOKING FORM

When completed please email this form to emaq@ricardo.com

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Name <i>as you would like it to appear on your CPD</i>	
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Title (Dr) (Mr) (Mrs) (Miss) (Ms) <i>please circle</i>	Signature	
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Registration Details:

Fees: £250 + VAT for additional member places

£295 + VAT for non-Subscribers

Date and location

21 September (Part 1) / 22 September (Part 2) 2020 13:00-16:00 – Online Webinar

17 November (Part 1) / 18 November (Part 2) 2020 13:00-16:00 – Online Webinar

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