



Re: 2-day IEQ & HVAC workshop – practical solutions in hot and humid climates, with the minimization of covid-19 transmission

Dear Sir/Madam,

R.O.S.E. Environmental Limited was established in 1996 and is a premier provider of Environmental and Industrial Hygiene monitoring equipment and services. As part of our commitment to delivering quality work and adding value to our customers' operations we continue to offer Professional Development Training Courses, in order to assist with developing relevant "in house" competencies. Our current hosting includes the suite of BOHS accredited occupational hygiene technical level courses from the Occupational Hygiene Training Association (OHTA), as well as other targeted certifications including the CAOHC certified Occupational Hearing Conservationist and the NIOSH approved Spirometry accredited courses. We also hosted the first Radiation Safety Officer training course for participants in Trinidad and Tobago, in June 2018.

As part of the schedule and professional training agenda for 2022, we propose to offer the following 2-day workshop titled, "**IEQ & HVAC – practical solutions in hot and humid climates, with the minimization of covid-19 transmission**". We spend greater than 90 percent of our time indoors and hence the indoor environment and air quality is a significant influence on the health of occupants. Poor indoor air ventilation exposes building occupants to air pollution, viruses, mold, and other irritants that can pose a risk to occupant health. And the coronavirus that causes COVID-19 has been proven to spread through airborne transmission, placing an urgent spotlight on how we examine our indoor environment. The coronavirus spread from tiny droplets that come out of people's mouths and noses when they breathe, talk, sing, yell, sneeze, cough, or chew with bigger droplets falling to the ground or on nearby surfaces and smaller droplets remaining floating in the air being likely to spread indoors where the air may be trapped from flowing. In addition, mold inspection and testing has also rapidly increased over the last few years, as a response to greater concern for building air quality. Maintaining good indoor air quality for spaces designed for long-term occupancy in the workplace leads to significant benefits in terms of good health, decreased absenteeism, increased productivity, motivation of staff, and reductions in non-productive time.

Course Objectives:

- To have participants become familiar with the basic principles of indoor air quality.
- To provide insight into fungi and the indoor environment, the influence of moisture and factors related to indoor growth including the influence of moisture and building materials, as well as the characteristics of indoor fungi, health effects, and control.
- To provide some focus on Heating Ventilation and Air Conditioning (HVAC) systems and their role in current best practices to minimize the transmission of viral aerosols and hence occupant infections.
- To introduce indoor environmental quality sampling and monitoring equipment, tools and techniques.

Solutions for a healthy environment

Unit #7, Lot 2C Chootoo Road,
El Socorro, San Juan
Tel: 868-638-1640, 638-7673, 675-1094
Fax: 868-675-1988
email: solutions@roseenvironmental.net

Directors: Glen A. Thompson
David M. Thompson
Paul J. Thompson
Allan Clayton
Gary C. Teixeira

- To provide insight into the availability and use of developed standards/guidelines/regulations/ scientific research proposed for the interpretation of indoor environmental quality and fungi data, as applicable.

Who is this course for?

- Health and Safety professionals interested in introducing or enhancing their Occupational Hygiene and Health surveillance within the workplace with regards to indoor air and environmental quality.
- Facility management companies and/or personnel that include HVAC/AC contractors, building inspectors and mold remediation personnel.
- Employee union representatives who represent and defend the views and concerns of his/her fellow employees in the workplace environment.

Course Delivery:

The course will be conducted over two (2) consecutive days, from 8:00am to 4:30pm daily. Teaching will be Microsoft PowerPoint-based and Adobe-based formats via the online virtual platform Microsoft Teams. Practical on-site sessions will be instructor-led hands-on with virtual support throughout from the Training Program Director.

- The majority of the theory material will be covered during Day 1 – virtual class
- Equipment practical sessions, review of Sampling/Assessment Methodologies & Evaluation Criteria, data analyses and interpretations, and case studies will be covered during Day 2 – onsite in-person class

Learning Outcomes:

- Introduction to Indoor Environmental Quality and HVAC assessments
- Factors affecting indoor air quality
- Potential effects of IAQ
- Air pollutants, pathways and controls
- Managing moisture and mold contamination
- Guidelines and regulations
- Indoor environmental quality and mold measurement and sampling techniques
- Interpreting IAQ data (qualitative and quantitative) and laboratory microscopy results
- Resolving IAQ problems.
- Mold remediation with post-remediation verification (PRV) assessment protocols
- Specialist application - *Legionella*

Course Certification:

On successful completion, the participant will receive an authorised Certificate of Participation from the Training Provider.

2022 Proposed Course Dates

Course(s)	Dates	Costing TTD (VAT Exclusive)
IEQ 2day workshop – with emphasis on HVAC controls & COVID-19 transmission	May: 16th, 17th	\$3500
W503 Noise – Measurement and its Effects	June: 21 st , 22 nd , 24 th , 27 th , 28 th , 30 th	\$9,987 (with BOHS exam)
		\$8,023 (without BOHS exam)

Course Faculty

ROSE Environmental Limited hosts these OHTA courses with lecturer facilitation via Golder. Golder was one of the first international industrial hygiene consulting firms to be an approved training provider for the OHTA courses. Since 2010, Golder has offered numerous principal and intermediate level OHTA courses throughout the world to more than 800 students to date. Golder also routinely facilitates client or company specific modified OHTA training courses.

Mr. Andreas Wagner, CIH, ROH, will be the Training Program Director for all courses offered by Golder for ROSE, and will also be the lead instructor. Mr. Wagner is a Principal and Industrial Hygiene Practice Leader at Golder, with over 30 years of Industrial Hygiene consulting experience. He has been a lead instructor for numerous principal and intermediate level OHTA training courses offered by Golder for over 10 years and will be responsible for the coordination between Golder and ROSE instructors, including for the hands-on sessions for this particular OHTA module offering.

Event Information:

- Workshop: IEQ & HVAC– practical solutions in hot and humid climates, with the minimization of covid-19 transmission
- Date & Time: May: 16th, 17th, 8:00am – 4:30pm daily
- Venue: Day 1 – Virtual class via MS Teams
Day 2 – Onsite practical at ROSE training room facility at the Technical Services Department, 80 Carli Bay Road, Perseverance Village, Couva
- Facilitators: Golder - Mr. Andreas Wagner, CIH, ROH
- Cost: **TT \$3,500.00 VAT exclusive (Or US\$515 VAT exclusive)**

The costing covers all the fees necessary for course delivery, approval and individual attendee certifications, and hence represents a complete theoretical and practical course package. It also includes breakfast, lunch and coffee breaks for the Day 2 onsite practical.

Registration Forms should be filled out and emailed to garyt@roseenvironmental.net as soon as possible, no later than Friday 6th May 2022. Payment will also be due in advance on or before Thursday 12th May, 2022.

PLEASE NOTE, THERE WILL BE NO REFUNDS FOR CANCELLATIONS OF REGISTRATIONS AFTER FRIDAY 06th MAY 2022.

We look forward to hosting your company at this very important course and to the development of Occupational Health best practices in Trinidad and Tobago.

Sincerely,

Gary Teixeira

Gary Teixeira

CEO

cc. Elizabeth Seebaran, CIE, ICertOH – Application Specialist, Project Services

cc. Nadine Yearwood – Technical Assistant, Project Services