

Indoor Air Quality Training Course: Standards and Guidelines - What to Measure, How and Why?

Sunday, 6th September 9:00 am – 5:00 pm

Presenters: Dr. Heike Neumeister-Kemp, Prof. Sue Reed, Nigel West, Dr. Peter Franklin, David Lark, Marcus Donnelly, Nadja Kampfenkel, Jeremy Stamkos & Dr. Cedric Cheong.

Venue: Mycologia Australia, Unit 4, 454 Scarborough Beach Road, Osborne Park.

This one day training course provides an overview on current Australian, New Zealand and international standards and guidelines for indoor air quality. This course has a practical hands-on approach and will teach Indoor Air Quality (IAQ) essentials to consultants working or wanting to work in this field. The course will show how to measure and interpret a range of standard IAQ pollutants as well as the requirements for green building design, the green building code of Australia and the new Standard from AIRAH for Air-conditioning and Duct Cleaning. This will include detailed explanations from experienced IAQ experts on individual pollutants such as CO₂, VOCs and other gases, particles, and microbials. The health effects and behaviour of these pollutants in indoor environments will be discussed in detail. The practical hands-on training will emphasize the use of the latest IAQ monitors and meters currently being used in the industry, plus training on how to interpret the resulting data. The participants will acquire the skills and confidence required to conduct IAQ assessments in all but emergency or extreme situations.

9:00 – 9:15

1. Introduction to IAQ (Dr Cedric Cheong)
- Background, history, case studies

12:30 – 1.15 Lunch

9:15 - 10:30

2. Indoor Chemical Pollutants (Dr Peter Franklin & Nigel West)
- Volatile Organic Compounds (VOCs), Formaldehyde & Unflued gas heaters
 - Problems, health effects and case studies
 - Measurements, sampling & interpreting data – HAPSITE, TO-14

1:15 – 2:15

5. Particles & dust (Prof. Sue Reed) and Asbestos (Marcus Donnelly)
- Problems, health effects and case studies
 - Measurements, sampling & interpreting data

10:30 – 10:40 Morning Tea

10:40 – 11:30

3. Biologicals (Dr Heike Kemp)
- Problems, health effects and case studies
 - Measurements, sampling & interpreting data

2:15 – 3:15

6. Standards and Guidelines (Prof Sue Reed, Nadja Kampfenkel & Jeremy Stamkos)
- IAQ guidelines, ASHRAE, NEPM, EPA, Federal Government
 - Green building design and Green Building Code of Australia
 - HVAC standards – AIRAH, NADCA

3:15 – 3:30 Afternoon Tea

11:30 – 12:30

4. IAQ parameters & ventilation (David Lark & Jeremy Stamkos)
- CO₂, CO, Temperature, dew point and relative humidity
 - Problems, health effects and case studies
 - Measurements, sampling & interpreting data

3:30 – 4:30

8. Sampling, Measurements and Assessments
- Equipment practical & demonstration

4:30 – 5:00

9. Conclusions (Panel)

Mycologia to provide transport to CASANZ 09 Welcome Reception beginning at 5.30pm