



***Workshop on Indoor Air Quality (IAQ) –  
Field Sampling of Microbiological Parameters***  
**Programme Code: SC395A / GESC9001**  
**Application Code: 1970-SC395A**

***Enquiries:*** **2975-5697**  
***Programme Director: Dr. Tian Zhipeng*** **3762-0974**

**Introduction**

Indoor air quality (IAQ) has recently become one of the top priorities of architects/engineers involved in constructing and monitoring human habitats. The Environmental Protection Department of the Hong Kong SAR Government has therefore begun establishing an IAQ Certification programme and has already proposed 12 IAQ parameters as guidelines for excellent and good IAQ classes. The School is pleased to offer this course which aims to give a hands-on overview of best practices during on-site field sampling of microbiological parameters of IAQ to attendees without previous formal microbiology training. Upon satisfactory completion of the course, attendees will have satisfied the minimum training requirement for being a Hong Kong Inspection Body Accreditation Scheme (HKIAS) approved inspector for fielding sampling of the IAQ microbiological parameter under the Hong Kong Accreditation Service (HKAS) accredited IAQ Certificate Issuing Body (IAQCIB).

**Course Structure**

The course consists of 2 half-day workshops with lectures and practical sessions. The class size of the lecture session ranging from 20 to 40 students while maximum number of students per practical session is limited to 30.

**Topics of lectures include:**

1. Introductory Microbiology for indoor air
2. Decontamination and disinfection
3. Indicator micro-organisms and their significance
4. Methods of sampling (indicator and pathogenic micro-organisms)
5. Equipment and materials used in field sampling
6. Pro's and con's of different sampling methods and devices
7. Quality assurance and practical issues during on-site sampling
8. Maintenance & transport considerations of samples.

### **Topics for practical session:**

1. Basic microbiological techniques – aseptic procedures, disinfection, and proper disposal of microbiological waste.
2. Indoor air sampling – sampling techniques, use and maintenance of sampling devices.
3. Reading of results – total bacterial counts and total fungal count, interpretation.

### **Teaching Staff**

Dr. Miranda Yau, SMT, HA

### **Assessment and Certificate**

An assessment will be conducted at the end of the course to test the competence of the attendee. The passing mark of the assessment is **50%**. Upon satisfactory completion of the course (attending not less than **80%** of all classes and successfully passing the assessment), a Statement of Achievement will be issued to the attendee.

### **Admission Requirement**

Applicant should hold a Higher Certificate / Associate Degree / Diploma in Engineering, Technology, Environmental or Science discipline issued by a recognized institute.

### **Date and Time**

Two Saturday mornings **25 February and 4 March 2023 (tentative)** from 9:30 am to 1:30 pm

### **Venue**

Lecture will be held at HKU SPACE Admiralty Learning Centre **(to be confirmed)** and practical will be held in Student Laboratory, Block T, Queen Mary Hospital, Pokfulam Road, Hong Kong **(to be confirmed)**.

**Course Fee** : **HK\$2,700**

**Closing date for application** : **31 January 2023**

### **Application Procedure**

Please send in the completed application form (SF26) which can be download from our School's Website <https://hkuspace.hku.hk/prog/iaq-field-sampling-microbiological-parameters> together with the appropriate course fee and any required supporting documents to HKU SPACE, 13/F, Fortress Tower, 250 King's Road, North Point, Hong Kong (Attention: Ms. Bonnie Ng [bonnie.ng@hkuspace.hku.hk](mailto:bonnie.ng@hkuspace.hku.hk)). Cheque should be made payable to **"HKU SPACE"**. Applicants may also pay the course fee by VISA or MasterCard, including "HKU SPACE MasterCard", at any HKU SPACE enrolment centres.