COURSE OVERVIEW HE1944
Industrial Hygiene Certification Program
BOHS-M200: Basic Principles in Occupational Hygiene
(Accredited by the British Occupational Hygiene Society - BOHS)

Course Title
Industrial Hygiene Certification Program: BOHS-M200: Basic Principles in Occupational Hygiene *(Accredited by the British Occupational Hygiene Society - BOHS)*

Course Date/Venue
August 10-14, 2026/Al Maya 1 Meeting Room, Grand Millennium Al Wahda Hotel, Abu Dhabi, UAE

Course Reference
HE1944

3.0 CEUs (30 PDHs) AWARD

Course Duration
Five days/3.0 CEUs/30 PDHs

Course Description

This practical and highly-interactive course includes various practical sessions and exercises. Theory learnt will be applied using our state-of-the-art simulators.

This course aims to provide an introduction to outline the broad principles in occupational hygiene as the basis for anticipation, recognition, evaluation, and control of hazards that can be encountered in the workplace.

On completing this course successfully, participants will be able to:-

- The value of occupational hygiene and the role of the occupational hygienist
- The Range of Physical and Chemical Hazards in the Workplace
- Hazard Recognition Techniques and Potential Routes and Sources of Exposure
- Hazard Evaluation, Measurement Processes and Assessment of Exposures
- Methods of Hazard Control and Exposure Controls
- Management of Occupational Hygiene Programmes
- UK Health and Safety Legislation

This course is designed to provide participants with a detailed and up-to-date overview of BOHS-M200: Basic Principles in Occupational Hygiene. It covers the development and importance of occupational hygiene; the basic principles of physiology of the human body and how occupational exposure to chemical and physical agents can affect the human body; the respiratory and circulatory system including sight, hearing and heat regulation; the principles of risk assessments, hazard definitions and risk, and basic information on expert systems and control banding; the basic principles of toxicology and effects on the body; and the material forms covering gases, vapours, aerosols, dusts, fumes and vapour pressure.

During this interactive course, participants will learn the hazard processes, metals processes, organic chemical processes and other processes; the physical hazards covering physics of sound, vibration and health effects, and thermal environment; the electromagnetic spectrum and various bands of non-ionizing radiation; assessing lighting in the workplace; the health effects of ionizing radiation, musculoskeletal injuries; the hazards associated with using display screen equipment and stress management in the workplace; the exposure assessment, measurement of gases, vapours, and dusts and exposure assessment of physical hazards; and the principles of different types of hazard control measure.

This course will require at least 36 hours of study time, which includes approximately 30 hours of teaching and practical assessment including final examination and approximately 6 hours of independent study, such as revision (in the candidates' own time).

Course Objectives/Outcomes & Benefits for the Participants

Upon the successful completion of this course, each participant will be able to:

- Achieve the BOHS Certificate in BOHS-M200: Basic Principles in Occupational Hygiene
- Define occupational hygiene and discuss the history and background surrounding the development of occupational hygiene
- Explain the importance of occupational hygiene and the overview of qualifications and careers in occupational hygiene
- Discuss basic principles of physiology of the human body and how occupational exposure to chemical and physical agents can affect the human body
- Recognize the respiratory and circulatory system including sight, hearing and heat regulation
- Explain the principles of risk assessments, hazard definitions and risk, and basic information on expert systems and control banding
- Discuss the basic principles of toxicology and effects on the body and identify the material forms covering gases, vapours, aerosols, dusts, fumes and vapour pressure
- Illustrate hazard processes, metals processes, organic chemical processes and other processes

- Recognize physical hazards covering physics of sound, vibration and health effects, and thermal environments
- Discuss the electromagnetic spectrum and various bands of non-ionizing radiation
- Assess lighting in the workplace, the health effects of ionizing radiation, musculoskeletal injuries, the hazards associated with using display screen equipment and stress management in the workplace
- Apply exposure assessment, measurement of gases, vapours, and dusts including exposure assessment of physical hazards
- Discuss the principles of different types of hazard control measure

Exclusive Smart Training Kit - H-STK®

*Participants of this course will receive the exclusive "Haward Smart Training Kit" (**H-STK®**). The **H-STK®** consists of a comprehensive set of technical content which includes **electronic version** of the course materials conveniently saved in a **Tablet PC**.*

Who Should Attend

This course provides an overview of all significant aspects and considerations of basic principles in occupational hygiene for health and safety professionals, occupational health specialists (including physicians and nurses) and those who are interested to enter into the field of occupational hygiene will find this course beneficial as well as specialists in subjects such as acoustics, ergonomics, human factors, occupational psychology, work organisation, biosafety, acoustics, engineering, or analytical chemistry who want a broader appreciation of how their role interfaces with other professions over health issues in the workplace would also benefit from this course.

Exam Eligibility & Structure

There are no prerequisites required for this qualification.

Suggested References and Further Reading

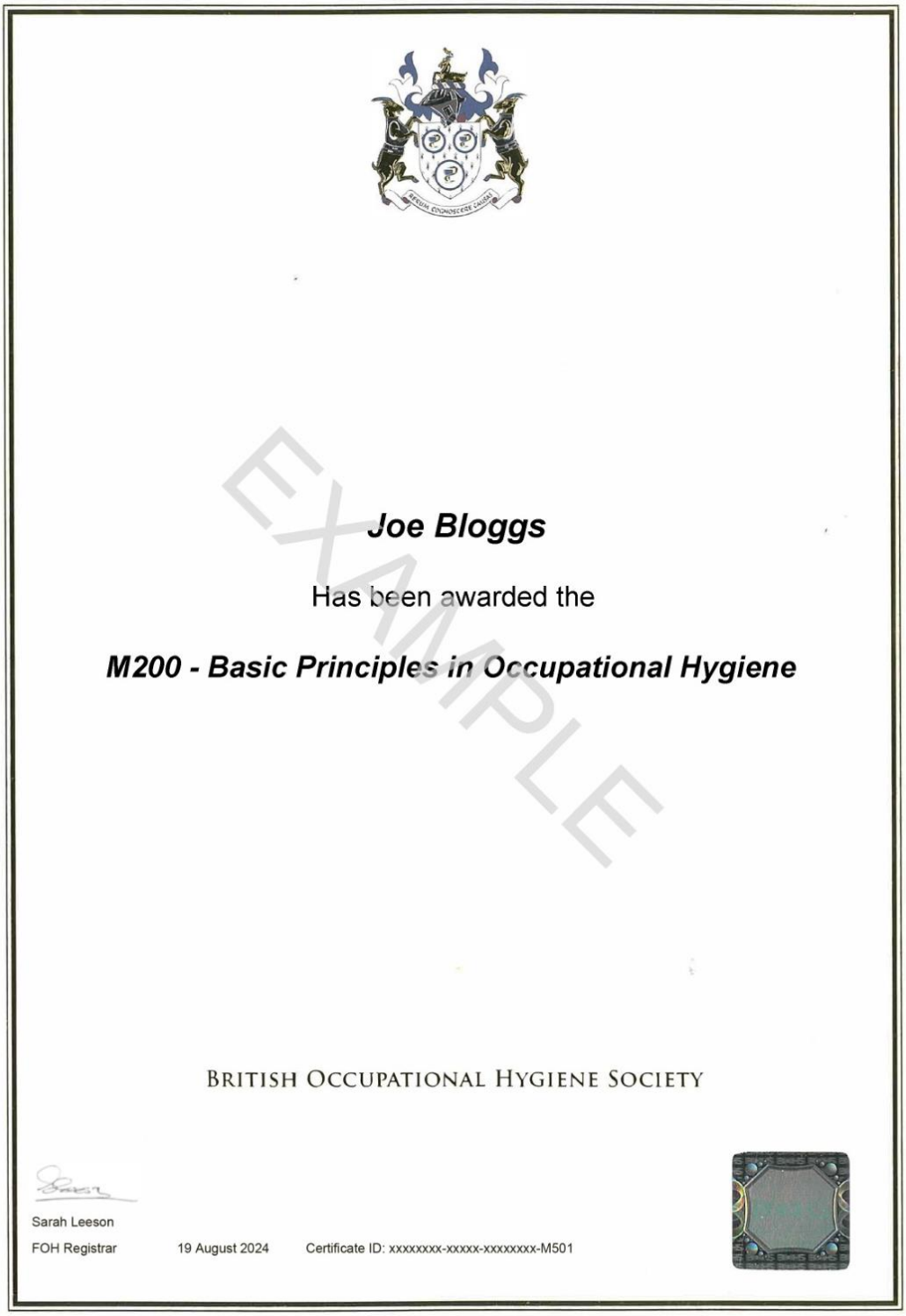
(1) The Health and Safety at Work Act.
(2) The Management of health and Safety at Work Regulations
(3) The structure of UK health and safety legislation
(4) The basic structure of the Health and Safety Executive including the relationship with WATCH and ACTS
(5) Control of Substances Hazardous to Health Regulations (COSHH)
(6) Control of Noise at Work Regulations
(7) Control of Asbestos at Work Regulations
(8) Control of Vibration at Work Regulations
(9) Integrated Pollution Prevention and Control [IPPC] Regulations
(10) Monitoring Health Hazards at Work (11) Principles of Occupational Health Hygiene

Course Certificate(s)

(1) BOHS-M200 – Basic Principles in Occupational Hygiene will be awarded to participants who have successfully completed the course and passed the examination within 12 months.

BOHS Certificate(s)

The following certificate is a sample of the BOHS certificates that will be issued to successful candidates:-



EXAMPLE

Joe Bloggs

Has been awarded the

M200 - Basic Principles in Occupational Hygiene

BRITISH OCCUPATIONAL HYGIENE SOCIETY

Sarah Leeson

FOH Registrar 19 August 2024 Certificate ID: xxxxxxxx-xxxxx-xxxxxxxx-M501

(2) Official Transcript of Records will be provided to the successful delegates with the equivalent number of ANSI/IACET accredited Continuing Education Units (CEUs) earned during the course.

Haward Technology Middle East

Continuing Professional Development (HTME-CPD)

CEU Official Transcript of Records

TOR Issuance Date: 15-Nov-23

HTME No. 74851

Participant Name: Waleed Al Habeeb

Program Ref.	Program Title	Program Date	No. of Contact Hours	CEU's
HE1944	Industrial Hygiene Certification Program BOHS-M200: Basic Principles in Occupational Hygiene *(Accredited by the British Occupational Hygiene Society - BOHS)*	November 11-15, 2023	30	3.0

Total No. of CEU's Earned as of TOR Issuance Date **3.0**

TRUE COPY

Jaryl Castillo
Academic Director

Haward Technology has been approved as an Accredited Provider by the International Association for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 600, Herndon, VA 20171, USA. In obtaining this approval, Haward Technology has demonstrated that it complies with the ANSI/IACET 1-2018 Standard which is widely recognized as the standard of good practice internationally. As a result of their Authorized Provider membership status, Haward Technology is authorized to offer IACET CEUs for programs that qualify under the ANSI/IACET 1-2018 Standard.

Haward Technology's courses meet the professional certification and continuing education requirements for participants seeking Continuing Education Units (CEUs) in accordance with the rules & regulations of the International Association for Continuing Education & Training (IACET). IACET is an international authority that evaluates programs according to strict, research-based criteria and guidelines. The CEU is an internationally accepted uniform unit of measurement in qualified courses of continuing education.

Haward Technology is accredited by

P.O. Box 26070, Abu Dhabi, United Arab Emirates | Tel.: +971 2 3091 714 | E-mail: info@haward.org | Website: www.haward.org

Certificate Accreditations

Haward's certificates are accredited by the following international accreditation organizations: -

- The British Occupational Hygiene Society (BOHS)

Haward Technology is an Approved Training Partner of the British Occupational Hygiene Society (BOHS) for the M200 and M500 series modules, which are designed to maintain a high standard of occupational hygiene education.

Together with BOHS, Haward Technology supports hygiene professionals in their mission to create safe working environments globally and is committed to advancing the practice of occupational hygiene to promote healthier workplaces worldwide.

- British Accreditation Council (BAC)

Haward Technology is accredited by the **British Accreditation Council** for **Independent Further and Higher Education** as an **International Centre**. Haward's certificates are internationally recognized and accredited by the British Accreditation Council (BAC). BAC is the British accrediting body responsible for setting standards within independent further and higher education sector in the UK and overseas. As a BAC-accredited international centre, Haward Technology meets all of the international higher education criteria and standards set by BAC.

- The International Accreditors for Continuing Education and Training (IACET - USA)

Haward Technology is an Authorized Training Provider by the International Accreditors for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 600, Herndon, VA 20171, USA. In obtaining this authority, Haward Technology has demonstrated that it complies with the **ANSI/IACET 2018-1 Standard** which is widely recognized as the standard of good practice internationally. As a result of our Authorized Provider membership status, Haward Technology is authorized to offer IACET CEUs for its programs that qualify under the **ANSI/IACET 2018-1 Standard**.

Haward Technology's courses meet the professional certification and continuing education requirements for participants seeking **Continuing Education Units** (CEUs) in accordance with the rules & regulations of the International Accreditors for Continuing Education & Training (IACET). IACET is an international authority that evaluates programs according to strict, research-based criteria and guidelines. The CEU is an internationally accepted uniform unit of measurement in qualified courses of continuing education.

Haward Technology Middle East will award **3.0 CEUs** (Continuing Education Units) or **30 PDHs** (Professional Development Hours) for participants who completed the total tuition hours of this program. One CEU is equivalent to ten Professional Development Hours (PDHs) or ten contact hours of the participation in and completion of Haward Technology programs. A permanent record of a participant's involvement and awarding of CEU will be maintained by Haward Technology. Haward Technology will provide a copy of the participant's CEU and PDH Transcript of Records upon request.

Course Instructor(s)

This course will be conducted by the following instructor(s). However, we have the right to change the course instructor(s) prior to the course date and inform participants accordingly:

Mr. Peter Jacobs, is a **Senior HSE Consultant** with almost **25 years** of extensive experience within **Oil & Gas**, **Refinery** and **Petrochemical** industries. His wide experience covers in the areas of **OHTA Modules** (Measurement of Hazardous Substances, Thermal Environment, Noise Measurement & Its Effects, Asbestos & Other Fibers, Control of Hazardous Substances, Ergonomics Essentials, Health Effects of Hazardous Substances), Advanced **Industrial Hygiene**, **Incident Command & Report Writing**, **HAZOP**, **HAZMAT**, **HAZID**, **Health Risk** Assessment, Modern **Safety Risk** Management, **Process Risk** Management, **Root Cause Analysis** Techniques, **HSE Management System** Development & Implementation, **SAESI Hazardous Materials** for the **First Responder Operations (NFPA 472)**, **Industrial Safety** & Housekeeping, **Job Safety & Hazard** Analysis, **Hazardous Substances** Measurement, **Workplace** Control, Physical Agents, **Emergency Response**, **Chemical & Biological** Operations, Basic **Safety & Loss Prevention**, Safety in **Chemical Laboratory**, **Confined Space Safety**, **Industrial Hygiene**, **Occupational Health & Hygiene**, **Ergonomics**, **Biological** Assessment, **Radiation** with Radon/Thoron Assessment, **Radiation** Protection Safety, **Radiation** Monitoring, Natural **Radiation** Sources, **Nuclear** Regulatory Act, **Industrial Ventilation**, **Air Pollution Dispersion** Modelling, Basic Clandestine **Drug Laboratory** Investigation, **Chemical** Engineering, **Fire** Safety & Evacuation, **Evacuation** Safety, Safety Orientation, Hand & Power Tools Safety, Isokinetic Stack Sampling, Dust Exposure, Quantifying Workplace Stressors, Noise & Airborne Pollutants, Thermal Stress, Illumination, Mine Health & Safety, Statistical Method Validation, Legal Audit Compliance, Riot & Crowd Control, ISO 14000, OHSAS 18000, ISO 17025 and ISO 9000.

During his career life, Mr. Jacobs has gained his practical and field experiences through his various significant positions and dedication as the **Forensic Science Laboratory Manager**, **Occupational Hygienist**, **Radiation Protection Officer**, **Lead Practitioner**, Safety, Health & Environmental (**SHE**) **Specialist**, **First Responder**, **OHS Inspector**, **Ambulance Assistant** and **LPG Distributor Auditor** from various international companies like the Sedulitas, Richards Bay Minerals, Sasol and South African Police Service.

Mr. Jacobs has a **Master's** degree in **Public Health – Occupational Hygiene**, a **National Diploma** in **Purchasing Management** and an **Intermediate Certificate in Mine Environmental Control** an **Accredited South African Emergency Services Institute** (**SAESI**). Further, he is a **Certified Instructor/Trainer**, an Appointed Commissioned Officer, a SAIOH/ IOHA President, an Assessor/Moderator of Health & Welfare SETA, a **Registered Occupational Hygienist** of the Southern African Institute for Occupational Hygiene, awarded as a SAIOH **Occupational Hygienist** of the Year Award and a well-regarded member of the British Occupational Hygiene Society (**BOHS**), Mine Ventilation Society of South Africa (MVSSA) and South African Radiological Protection Association (SARPA). He has further delivered numerous trainings, courses, seminars, workshops and conferences worldwide.

Training Fee
US$ 7,500 per Delegate + **VAT**. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Exam Fee
US$ 140 per Delegate + **VAT**.

Training Methodology
All our Courses are including **Hands-on Practical Sessions** using equipment, State-of-the-Art Simulators, Drawings, Case Studies, Videos and Exercises. The courses include the following training methodologies as a percentage of the total tuition hours:-

30% Lectures
20% Practical Workshops & Work Presentations
30% Hands-on Practical Exercises & Case Studies
20% Simulators (Hardware & Software) & Videos

In an unlikely event, the course instructor may modify the above training methodology before or during the course for technical reasons.

Accommodation
Accommodation is not included in the course fees. However, any accommodation required can be arranged at the time of booking.

Course Program
The following program is planned for this course. However, the course instructor(s) may modify this program before or during the course for technical reasons with no prior notice to participants. Nevertheless, the course objectives will always be met:

Day 1: Monday, 10th of August 2026

0730 – 0800	*Registration & Coffee*
0800 – 0815	*Welcome & Introduction*
0815 – 0830	***PRE-TEST***
0830 – 1000	***Introduction to Occupational Hygiene*** *The Definition of Occupational Hygiene • A History & Background Surrounding the Development of Occupational Hygiene • The Importance of Occupational Hygiene • An Overview of Qualifications & Careers in Occupational Hygiene*
1000 - 1015	*Break*
1015 - 1130	***Human Physiology*** *General Metabolism • The Respiratory System*
1130 - 1230	***Human Physiology (cont'd)*** *The Circulatory System • Sight*
1230 – 1245	*Break*
1230 - 1420	***Human Physiology (cont'd)*** *Hearing*
1420 – 1430	***Recap*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow*
1430	*Lunch & End of Day One*

Day 2: Tuesday, 11th of August 2026

0730 - 0800	***Human Physiology (cont'd)*** *Heat Regulation*
0800 - 0930	***Recognition of Chemical Hazards: Hazard & Risk Definitions Along with Gathering Information from Various Sources*** *Safety Data Sheets • Guidance Documents • Literature • Websites Etc. • COSHH Essentials*
0930 – 0945	*Break*
0945 - 1130	***Recognition of Chemical Hazards: Basic Principles of Toxicology & Effects on the Body*** *Routes of Entry into the Body (Inhalation, Ingestion, Absorption) • Metabolism • Effects on the Body (Acute, Chronic, Systemic & Localized) • Types of Effect (Asphyxiation, Irritation, Trauma, Poisoning) • Toxicity Testing*
1130 - 1230	***Recognition of Chemical Hazards: Material Forms*** *Gases, Vapours, Aerosols • Dusts (Respirable & Inhalable) • Fumes • Vapour Pressure*
1230 – 1245	*Break*
1245 - 1420	***Recognition of Chemical Hazards: Hazards Processes*** *Silica (Quarrying & Mining, Brick, Tile & Refractory Manufacture, Pottery & Ceramic, Sandblasting, Glass Manufacture; Asbestos (Uses, Building Surveys, Sampling & Analysis, Remediation/Removal); Machine Made Mineral Fibre (MMMF) Manufacture & Utilization) • Metal Processes (Metal Refining (Furnaces, Foundries, Casting); Machining (Cutting, Grinding, Polishing); Treatments (Degreasing, Plating, Pickling, Anodising); Welding (Arc Welding, Gas Welding, Brazing, Soldering) • Organic Chemical Processes (Degreasing, Dry Cleaning, Halogenated Hydrocarbons (Solvents), Application Methods: Brushed or Sprayed (Paints); Benzene, Toluene, Xylene, N-Hexane (Hydrocarbons & Their Uses); Fumigants, Spraying, Animal Dipping (Pesticides); Polymer Manufacture, Rubber Manufacture, Use of Resins in Reinforced Structures such as Glass or Carbon Fibre, Isocyanate Forms & Uses (Plastics & Polymers); Handling & Use of Bioactive Materials & Asthmagens (Pharmaceuticals & Fine Chemicals)) • Other Processes (Woodworking; Biological Hazards (Animals, Farming, Water Treatment, Legionella))*
1420 – 1430	***Recap*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow*
1430	*Lunch & End of Day Two*

Day 3: Wednesday, 12th of August 2026

0730 – 0930	***Recognition of Physical Hazards*** *An Overview of the Physics of Sound, Units of Measure & Effects Noise can have • An Overview of the Physics of Vibration & Health Effects it may have on the Body Either Locally or as a Whole*
0930 – 0945	*Break*
0945 - 1100	***Recognition of Physical Hazards (cont'd)*** *Human Responses to Thermal Environments (Thermal Stress) & Ways to Evaluate It • The Electromagnetic Spectrum & Various Bands of Non-Ionizing Radiation, such as Ultraviolet, Infra-Red, Microwave, Lasers etc.*
1100 – 1230	***Recognition of Physical Hazards (cont'd)*** *The Assessment of Lighting & in the Workplace & the Effects of Poor Lighting & Glare • The Health Effects of Ionizing Radiation, Assessment of Exposure, Control Techniques & Specialist Roles of those who Deal with it*

1230 – 1245	Break
1245 – 1420	***Recognition of Physical Hazards (cont'd)*** *Musculoskeletal Injuries, Ergonomics & the Role of an Ergonomist • The Hazards Associated with Using Display Screen Equipment & how They Should Be Managed • Stress & Stress Management in the Workplace*
1420 – 1430	***Recap*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow*
1430	Lunch & End of Day Three

Day 4: Thursday, 13th of August 2026

0830 – 0930	***Evaluation of Hazards: An Introduction to Exposure Assessment, Measurement of Gases, Vapours & Dusts*** *Measurement of Vapours, Gases, Aerosols & Dust Using Sampling Techniques such as, Personal, Static, Real Time & Spot Sampling • Analytical Methods • Hygiene Standards & Occupational Exposure Limits*
0930 – 0945	Break
0945 – 1100	***Evaluation of Hazards: An Introduction to Exposure Assessment, Measurement of Gases, Vapours & Dusts (cont'd)*** *Units of Measurement, Time-Weighting, Simple Calculations/Algebra • Compliance with Statutory Limits • Standard Setting • Biological Monitoring & Health Surveillance*
1100 – 1230S	***Evaluation of Hazards: An Introduction to Exposure Assessment of Physical Hazards*** *Measurement of Noise • Measurement of Thermal Environment • The Principles of Assessment of Vibration • the Principles of Assessment of Lighting & Non-Ionising Radiation*
1230 – 1245	Break
1245 – 1420	***Evaluation of Hazards: An Introduction to Exposure Assessment of Physical Hazards (cont'd)*** *the Principles of Assessment of Ionising Radiation • The Principles of Ergonomic Risk Assessment*
1420 – 1430	***Recap*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow*
1430	Lunch & End of Day Four

Day 5: Friday, 14th of August 2026

0730 – 0930	***Control of Hazard: An Introduction to & Outline of Main Elements within the Hierarchy of Control*** *Elimination or Substitution of a Hazard • Basic Principles of Ventilation (Local & General)*
0930 – 0945	Break
0945 – 1100	***Control of Hazard: An Introduction to & Outline of Main Elements within the Hierarchy of Control*** *Local Exhaust Ventilation (LEV) Design*
1100 – 1230	***Control of Hazard: An Introduction to & Outline of Main Elements within the Hierarchy of Control*** *Personal Protection (PPE, RPE, Hearing Protection etc.)*

1230 – 1245	*Break*
1245 - 1345	***Control of Hazard: An Introduction to & Outline of Main Elements within the Hierarchy of Control*** *General Ventilation & Air Conditioning*
1345 – 1400	***Course Conclusion*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Course Topics that were Covered During the Course*
1400 – 1415	***POST-TEST***
1415 – 1430	*Presentation of Course Certificates*
1430	*Lunch & End of Course*

MOCK Exam

Upon the completion of the course, participants have to sit for a MOCK Examination similar to the exam of the Certification Body through Haward's Portal. Each participant will be given a username and password to log in Haward's Portal for the MOCK exam during the 60 days following the course completion. Each participant has only one trial for the MOCK exam within this 6.0-day examination window. Hence, you have to prepare yourself very well before starting your MOCK exam as this exam is a simulation to the one of the Certification Body.

Examinations & Assessment

Written Examination

This is an open-book multiple choice examination comprising of 40 questions (40 marks) to be answered in 1 hour.

The examination covers all sections of the syllabus and is overseen by an invigilator.

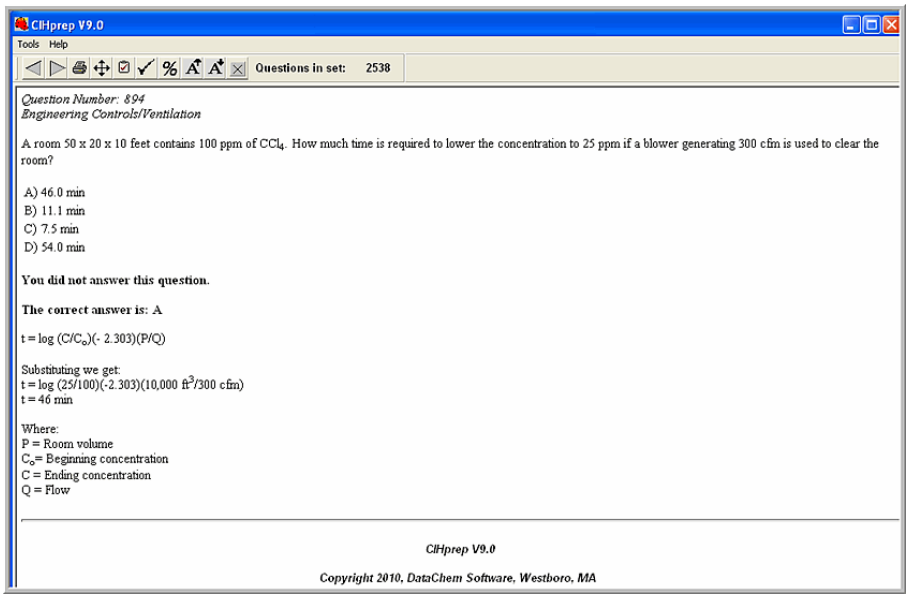
The pass mark for this examination is 60%.

Full details of the practical requirements and individual candidate reporting can be found in the Practical Evaluation Report which is available from www.bohs.org

Simulator (Hands-on Practical Sessions)

Practical sessions will be organized during the course for delegates to practice the theory learnt. Delegates will be provided with an opportunity to carryout various exercises using the state-of-the-art “Industrial Hygiene Virtual Laboratory Simulator”, “CIHprep V9.0 Simulator”, “Extech 445580: Humidity/Temperature Pen” and “Digital Sound Level Meter”.

Industrial Hygiene Virtual Laboratory Simulator



CIHprep V9.0 Simulator

Extech 445580: Humidity/Temperature Pen

Noise Monitoring Device (Digital Sound Level Meter)

Course Coordinator
Mari Nakintu, Tel: +971 2 30 91 714, Email: mari1@haward.org