



COURSE OVERVIEW HE1937 Industrial Hygiene Certification Program BOHS-M502: Thermal Environment (Accredited by the British Occupational Hygiene Society - BOHS)

Course Title

Industrial Hygiene Certification Program: BOHS-M502: Thermal Environment (Accredited by the British Occupational Hygiene Society - BOHS)

(37 PDHS)

Course Date/Venue Please see page 4

Course Reference HE1937

Course Duration Five days/3.7 CEUs/37 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 candidates with a sound understanding of the effects of the thermal environment on people, and the means of assessing and controlling the risks associated with thermal stress.

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

- Identify sources of thermal stress within the working environment
- Understand the nature of thermal strain on the body
- Make an assessment of the thermal environment through appropriate measurement and other means
- Evaluate the possible risks from exposure to thermal stress
- Suggest appropriate control approaches for the thermal environment



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This course is designed to provide participants with a detailed and up-to-date overview of BOHS-M502: Thermal Environment. It covers the thermal spectrum covering extreme temperatures and moderate temperatures; the principles of heat stress, heat strain, homeostasis and thermal regulation including feedback and control mechanisms; assessing physiological responses to hot environment and cold environments; the heat production and heat exchanges with the surroundings and heat balance equation; the metabolic heat production and efficiency, sensible heat exchanges, latent heat loss and acclimatisation; the effects of excessive heat strain covering hot and cold environments; and the predisposing factors.

During this interactive course, participants will learn the thermal comfort, scales for subjective evaluation of comfort, actual ideal indoor environments and the work of fanger; evaluating hot environments covering heat stress indices and effect of heat stress, effective and corrective effective temperatures, heat stress index, required sweat rate (PHS) and WBGT; the control of hot environments comprising of personal factors mitigating against 'hot' work, simple introduction to control by engineering and organisational measures and hot surface; the thermal survey, assessing the degree of risk and evaluating cold environments and control of cold environments; the various approaches to risk assessment covering AIOH tiered approach, SA DoMR code of practice for an occupational health programme on thermal stress and ACGIH thermal stress TLVs; and the difference between quantitative and qualitative approaches and physiological assessments.

This course will require at least 45 hours of study time, of which at least 37 hours will be taught (teaching and practical assessments) and 8 hours will be independent (in the candidates' own time).

Course Objectives

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

- Achieve the BOHS Certificate in BOHS-M502: Thermal Environment
- Discuss the thermal spectrum covering extreme temperatures and moderate temperatures
- Explain the principles of heat stress, heat strain, homeostasis and thermal regulation including feedback and control mechanisms
- Assess physiological responses to hot environment and cold environments as well as discuss heat production and heat exchanges with the surroundings and the heat balance equation
- Recognize metabolic heat production and efficiency, sensible heat exchanges, latent heat loss and acclimatisation
- Identify the effects of excessive heat strain covering hot and cold environments and the predisposing factors
- Discuss thermal comfort, scales for subjective evaluation of comfort, actual ideal indoor environments and the work of fanger
- Evaluate hot environments using heat stress indices and recognize the effect of heat stress, effective and corrective effective temperatures, heat stress index, required sweat rate (PHS) and WBGT



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- Discuss the control of hot environments comprising of personal factors mitigating against 'hot' work, simple introduction to control by engineering and organisational measures and hot surface
- Apply thermal surveys, assess the degree of risk and evaluate cold environments and control of cold environments
- Carryout various approaches to risk assessment covering AIOH tiered approach, SA DoMR code of practice for an occupational health programme on thermal stress and ACGIH thermal stress TLVs
- Differentiate quantitative versus qualitative approaches and apply physiological assessments

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 thermal environment for technicians and technologists who conduct measurements and testing in workplaces.

Exam Eligibility & Structure

There are no prerequisites required for this qualification.

Suggested References and Further Reading

- (1) Human Thermal Environments: The Effects of Hot, Moderate, and Cold Environments on Human Health, Comfort, and Performance
- (2) A guide to managing heat stress: Developed for use in the Australian environment
- (3) Guideline for Compilation of a Mandatory Code of Practice for an Occupational Health Programme (Occupational Hygiene and Medical Surveillance) on Thermal Stress
- (4) ISO 7243: 1989 Hot environments Estimation of heat stress on a worker, based on the WBGT Index (Wet Bulb Globe Temperature)
- (5) BS 7915:1998 Ergonomics of the thermal environment Guide to design and evaluation of working practices in cold indoor environments
- (6) ISO 11079:2007 Ergonomics of the thermal environment Determination and interpretation of cold stress when using required clothing insulation (IREQ) and local cooling effects (IREQ)
- (7) ISO 7730:2005 Ergonomics of the thermal environment Analytical determination and interpretation of thermal comfort using calculation of the PMV and PPD indices and local thermal comfort criteria
- (8) ISO 10551:1995 Ergonomics of the thermal environment assessment of the influence of the thermal environment using subjective judgment scales
- (9) ISO 12894:2001 Ergonomics of the thermal environment Medical supervision of individuals exposed to extreme hot or cold environments
- (10) ISO 7933:2004 ISO 7933:2004 Ergonomics of the thermal environment Analytical determination and interpretation of heat stress using calculation of the predicted heat strain
- (11) BS 7963:2000 Ergonomics of the thermal environment Guide to the assessment of heat strain in workers wearing personal protective equipment
- (12) ISO 7726: 1998Ergonomics of the thermal environment Instruments for measuring physical quantities
- (13) BS EN 14058 Protective clothing garments for protection against cool environments



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- (14) ISO 15265:2004 Ergonomics of the thermal environment Risk assessment strategy for the prevention of stress and discomfort in thermal working conditions
- (15) BS EN 511: 2006 Protective Gloves Against Cold
- (16) ISO 13732-3:2006 Ergonomics of the thermal environment Methods for the assessment of human responses to contact with surfaces Part 3: Cold Surfaces
- (17) ISO 11399:1995 Ergonomics of the thermal environment Principles and application of relevant international standards
- (18) ISO 9920:2007 Ergonomics of the thermal environment Estimation of the thermal insulation and water vapor resistance of a clothing ensemble
- (19) ISO 13732:1:2006 Ergonomics of the Thermal Environment: Methods for assessment of human response to contact with surfaces: Part 1: Hot Surfaces

Course Date/Venue

Session(s)	Date	Venue
1	February 16-20, 2025	Slaysel 02 Meeting Room, Movenpick Hotel & Resort Al Bida'a Kuwait, City of Kuwait
2	April 13-17, 2025	Al Aziziya Hall, The Proud Hotel Al Khobar, Al Khobar, KSA
3	July 13-17, 2025	Club B Meeting Room, Ramada Plaza by Wyndham Istanbul City Center, Istanbul, Turkey
4	October 13-17, 2025	Ajman Meeting Room, Grand Millennium Al Wahda Hotel, Abu Dhabi, UAE

Training Methodology

All our Courses are including **Hands-on Practical Sessions** using equipment, State-ofthe-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.

Course Fee

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Kuwait	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
Al Khobar	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
Istanbul	US\$ 8,000 per Delegate + VAT . This rate includes Participants Pack (Folder, Manual, Hand-outs, etc.), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

<u>Exam Fee</u>

US\$ 175 per Delegate + VAT

Accommodation

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



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Course Certificate(s)

(1) BOHS-M502 – Thermal Environment will be awarded to participants who have successfully completed the course and passed all the parts (A and B) within 12 months.

BOHS Certificate(s)

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





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(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.

	CEU Official Trans	cript of Recor	ds	
FOR IssuanceDat	e: 15-Nov-23 74861			
Participant Name:				
Program Ref.	Program Title	Program Date	No. of Contact Hours	CEU'S
HE1937	Industrial Hygiene Certification Program BOHS-M502: Thermal Environment	November 11-15, 2023	37	3.7
Total No. of CEU	(Accredited by the British Occupational Hygiene Society - BOHS)			3.7
Total No. of CEU	Hygierie Society - BOHS)		TRUE COPY	3.7
Total No. of CEU	Hygierie Society - BOHS)		TRUE COPY Jaryl Castillo cademic Director	3.7
Haward Technology (MCET), 2201 Coop	hygierie Society - BOHS) 's Earned as of TOR Issuance Date has been approved as an Accedited Provider by reative Way, Suite 600, Herndon, VA 20171, USA, Im attacked to 1.2016 Standard When is widely recognized as at	the International Association for Ci g free approval, Harvard Technology	Jaryl Castillo cademic Director	Trasting
Haward Technology (MCET), 2201 Goop with the ANSI/MCE Provider metchant Bandard Haward Technology Education Units (CE	hygierie Society - BOHS) 's Earned as of TOR Issuance Date has been approved as an Accedited Provider by reative Way, Suite 600, Herndon, VA 20171, USA, Im attacked to 1.2016 Standard When is widely recognized as at	the International Association for C g this approval, Harvard Technology transfer of good omotice international CEET CEUs for programs that quality antinuing education requirements for ternational Association for Continuing	Jaryl Castillo cademic Director ordinarg Education and has demonstrated that i y As a result of their Au y under the Abstituted participants seeing Co Education & Training Co	Training complian thorated f1-2018 entruing WCCET)





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Certificate Accreditations

Haward Technology is accredited by the following international accreditation organizations:-

Association (2124

The British Occupational Hygiene Society (BOHS)

Haward Technology is an Approved Training Partner of the British Occupational Hygiene Society (BOHS) for the M201 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**. 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 **3.7 CEUs** (Continuing Education Units) or **37 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.



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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.



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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:

0745 - 0800 P T 0800 - 0930 E	Registration, Coffee, Welcome & Introduction PRE-TEST	
0800 - 0930 E.		
0800 - 0930 E.		
1	The Thermal Spectrum Extreme Temperatures: Examples of Work Environments where Extreme Temperatures can be Found	
0930 – 0945 B	reak	
0945 - 1015 N P	The Thermal Spectrum (cont'd) Moderate Temperatures: How Work in Moderate Thermal Environments can Present a Risk	
D th T T 1015 - 1230 T C H H H E	Principles Definition of Heat Stress • Definition of Heat Strain • Homeostasis (Understand he Principles of Homeostasis; Be Aware of Typical Core, Muscle, & Skin Temperatures & how they Vary with Environmental & Other Conditions • Thermal Regulation including Feedback & Control Mechanisms (Thermoregulation Through a Feedback System; The Role of the Hypothalamus; Thermoreceptors; Control Actions Such as Shivering, Vasomotor etc) • Physiological Responses to tot Environment (Vasodilation; Sweating; Electrolyte Changes; Dehydration; Heart Rate; Respiration Rate; Other Effects) • Physiological Responses to Cold Environments (Vasoconstriction; Shivering; Piloerection; Cold Diuresis; Respiration; Heart Rate; Dehydration; Psychological; Other Responses)	
	unch	
P H So E 1330 - 1500 V E H	Principles (cont'd) Heat Production & Heat Exchanges with the Surroundings (External Heat Fources; Internal Heat Sources; Basic Thermodynamics) • The Heat Balance Equation Definitions of Terms (The Heat Balance Equation; Definition of Terms) • Aetabolic Heat Production & Efficiency (Metabolic Heat Production; Typical Values of Metabolic Heat Production for Different Tasks; Work) • Sensible Heat Exchanges (Convection; Radiation; Conduction) • Latent Heat Loss (Evaporative Heat Loss) • Acclimatisation (Physiological Mechanisms)	
1500 – 1515 B	Break	
1515 - 1620 E D	Effects of Temperature Extremes Effects of Excessive Heat Strain – Hot Environments (Syncope; Salt Balance; Dehydration; Cramps; Hyperpyrexia; Prickly Heat; Heat Stroke)	
1620 – 1630 U	Recap Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today & Advise them of the Topics to be Discussed Tomorrow	
1,		

Day 2

Day Z	
0730 - 0930	<i>Effects of Temperature Extremes (cont'd)</i> <i>Effects of Excessive Heat Strain – Cold Environments (Frostbite; Trench Foot; Hypothermia)</i>
0930 - 0945	Break
0945 - 1015	<i>Effects of Temperature Extremes (cont'd)</i> <i>Predisposing Factors (Age; General Health; Weight & Physical Fitness; Hydration State; Acclimatisation; Alcohol; Drugs; Diet; Fatigue)</i>



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1015 - 1215	Thermal Comfort Thermal Comfort (What is Thermal Comfort?; Why Thermal Comfort can be Important) • Scales for Subjective Evaluation of Comfort (Bedford; ASHRAE) • Actual Ideal Indoor Environments (Temperature, Humidity, & Air Movement) • An Introduction to the Work of Fanger (Predicted Percentage Dissatisfied (PPD); Predicted Mean Vote (PMV); ISO 7730)
1215 – 1315	Lunch
1315 - 1530	Evaluation of Hot Environments The Use of Heat Stress Indices (Definition of Terms & Environments where Indices can be Applied; Effective & Corrected Effective Temperature, WBGT, Heat Stress Index, Required Sweat Rate)
1530 - 1545	Break
1545 - 1620	<i>Evaluation of Hot Environments (cont'd)</i> <i>Effect of Heat Stress (Physiological Measurements as Predictors of Heat Strain)</i>
1620 – 1630	Recap Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today & Advise Them of the Topics to be Discussed Tomorrow
1630	End of Day Two

Day 3

Duy 5	
	Evaluation of Hot Environments (cont'd)
0730 - 0930	<i>Effective & Corrective Effective Temperatures (Application of Basic Effective Temperature (BET) & Corrective Effective Temperature (CET)) • Heat Stress Index (Application of the Heat Stress Index)</i>
0930 - 0945	Break
0945 - 1000	Evaluation of Hot Environments (cont'd)
	Required Sweat Rate (PHS) (Application of the Required Sweat Rate) • WBGT (Application; ISO 7243; Threshold Limit Values of ACGIH)
	Control of Hot Environments
1000 - 1230	Personal Factors Mitigating Against 'Hot' Work (Obesity; Medication; Age; State of Acclimatisation)
1230 - 1330	Lunch
	Control of Hot Environments (cont'd)
1330 - 1515	A Simple Introduction to Control by Engineering & Organisational Measures (Control Strategies; Engineering Controls; Management Controls; Personal Protective Clothing; Refuges)
1515 - 1530	Break
1530 - 1620	<i>Control of Hot Environments (cont'd)</i> <i>Hot Surfaces (Exposure to Hot Surfaces)</i>
1620 - 1630	Recap Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today & Advise Them of the Topics to be Discussed Tomorrow
1630	End of Day Three



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Day 4

	Thermal Surveys
0730 - 0930	Measurement Equipment (Air Temperature; Radiant Temperature; Humidity; Air
	Movement; Integrating Meters; Personal Monitoring)
0930 - 0945	Break
	Thermal Surveys (cont'd)
0945 - 1130	Surveys (Strategies) • Assessment of the Degree of Risk (Use of Measurement
	Data)
1130 - 1230	Evaluation of Cold Environments
1150 - 1250	Assessment Indices (Wind Chill Index)
1230 – 1330	Lunch
1330 – 1530	Evaluation of Cold Environments (cont'd)
1550 - 1550	Assessment Indices (Equivalent Chilling Temperature)
1530 - 1545	Break
1545 - 1620	Evaluation of Cold Environments (cont'd)
1343 - 1020	Assessment Indices (IREQ; ACGIH TLV Standards)
	Recap
1620 - 1630	Using this Course Overview, the Instructor(s) will Brief Participants about the
1020 - 1030	Topics that were Discussed Today & Advise Them of the Topics to be Discussed
	Tomorrow
1630	End of Day Three

Day 5

Day 5		
0730 - 0930	Control of Cold Environments Personal Factors (Heart & Lung Conditions; Circulatory Problems)	
0930 - 0945	Break	
0945 - 1230	<i>Control of Cold Environments (cont'd)</i> <i>Engineering Controls (Wind Barriers; Refuges)</i>	
1230 - 1330	Lunch	
1330 - 1415	<i>Control of Cold Environments (cont'd)</i> <i>Management Controls (Monitoring; Work – Rest Regimes/Warming Regimes)</i> • <i>Clothing (Clothing Insulation & CLO Values; Wind Proofing; Water Proofing; Gloves; Heated Clothing)</i>	
1415 - 1430	Break	
1430 - 1545	Approaches to Risk AssessmentAIOH Tiered Approach (Overview & Application; Advantages & Disadvantages) •SA DOMR Code of Practice for an Occupational Health Programme on ThermalStress (Overview & Application; Advantages & Disadvantages) •ACGIH ThermalStress TLVs (Overview & Application; Advantages & Disadvantages) •Quantitative Vs Qualitative Approaches • Physiological Assessments	
1545 - 1600	POST-TEST	
1600 - 1615	<i>Course Conclusion</i> <i>Using this Course Overview, the Instructor(s) will Brief Participants about the</i> <i>Course Topics that were Covered During the Course</i>	
1615 - 1630	Presentation of Course Certificates	
1630	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 30 days following the course completion. Each participant has only one trial for the MOCK exam within this 30-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.



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Examinations & Assessment

Candidates are required to pass all of the following parts (A and B below) to be awarded this qualification.

(A) Practical Assessment

The practical assessment will be conducted by the Tutor during relevant parts of the course for all candidates. This is to ensure that every candidate can demonstrate their individual ability and correct method.

The studies are designed to assess the basic skill and knowledge of each candidate in the techniques in making measurements of conditions for the purpose of assessing the thermal environment.

The exercises will involve:

- The setting up and reading of a static wet and dry bulb thermometer and calculation of humidity etc.
- The set up and use of a whirling hygrometer and a globe thermometer to evaluate a WBGT value.

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

(B) Written Examination

This is an open-book examination comprising of 40 (160 marks) short-answer questions illustrated by photographs and diagrams as appropriate to be answered in 2 hours. Each question is worth 4 marks

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

The pass mark for this examination is 50 %



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Simulators (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 Environmental simulators "CAMEO Chemicals Suite Software", "US EPA SCREEN3 Model", "AERSCREEN Model", "Industrial Hygiene Virtual Laboratory Simulator" and "CIHprep V9.0 Simulator".







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AERSCREEN Model





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