



COURSE OVERVIEW HE0858

Industrial Hygiene Certification Program W506: Ergonomics Essentials

(Accredited by OHTA-BOHS)

Course Title

Industrial Hygiene Certification Program: W506: Ergonomics Essentials (Accredited by OHTA-BOHS)

Course Date/Venue

November 03-07, 2024/Oryx Meeting Room, Doubletree Hilton Doha, Al-Sadd, Doha, Qatar

Course Reference

HE0858

Course Duration

Training: Five days/4.5 CEUs/45 PDHs

Exam: One day/3 Hours

Total: 6 Days

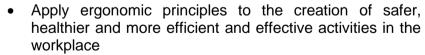
Course Description



This practical and highly-interactive course includes real-life case studies where participants will be engaged in a series of interactive small groups and class workshops.

This course aims to provide a broad-based introduction to ergonomic principles and their application in design of work, equipment and the workplace. Consideration is a given to musculo-skeletal disorders, manual handling, ergonomics aspects of the environment as well as to the social and legal aspects.

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



- Conduct ergonomic risk assessments
- Develop appropriate control measures for ergonomic risk factors
- Describe work-related causes of musculo-skeletal disorders
- Design a workplace according to good ergonomic
- Assess ergonomic aspects of the working environment and work organization







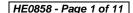






















The course normally run as a taught course over 5 days (minimum of 45 hours including lectures, tutorials, practical/demonstration sessions, guided reading, overnight questions and examination). There will be a 40 short answer question "open book" examination with an allowed time of 120 minutes.

This course is designed to provide participants with a detailed and up-to-date overview of ergonomics. It covers the general principles of ergonomics including the biological ergonomics, psychology and developing ergonomics strategy at work; the ergonomics methods and techniques covering work design, ergonomics risk assessment, measurement and information gathering; the musculo-skeletal disorder including manual handling and work-related upper limb disorders (WRULD); and the workplace, job and product design, workplace layout and equipment design, controls, display and information.

During this interactive course, participants will learn the relevant physical factors of the work environment comprising of lighting, noise, thermal environment, other considerations, clothing and protective equipment; the ISO standards and sources of standards; the training need analysis; the testing and interview techniques; and the instruction and supervision for health information, legal instruments, records and measuring health and illness.

Course Objectives

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

- Achieve the OHTA-BOHS Certificate in W506: Ergonomics Essentials
- Discuss the general principles of ergonomics including the biological ergonomics, psychology and developing ergonomics strategy at work
- Employ ergonomics methods and techniques covering work design, ergonomics risk assessment, measurement and information gathering
- Identify musculo-skeletal disorder including manual handling and work-related upper limb disorders (WRULD)
- Carryout workplace, job and product design, workplace layout and equipment design, controls, display and information
- Determine relevant physical factors of the work environment comprising of lighting, noise, thermal environment, other considerations, clothing and protective equipment
- Review ISO standards and sources of standards as well as carryout training need analysis
- Employ testing and interview techniques including instruction and supervision for health information, legal instruments, records and measuring health and illness

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 ergonomics for health and safety professionals, occupational health specialists including physicians and nurses. Specialists in subjects such as acoustics, ergonomics, human factors, occupational psychology, work organisation, biosafety, engineering, analytical chemistry and those who want a broader appreciation of how their role interfaces with other professions over health issues in the workplace will find this course beneficial.

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.

Course Fee

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

Accommodation

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





















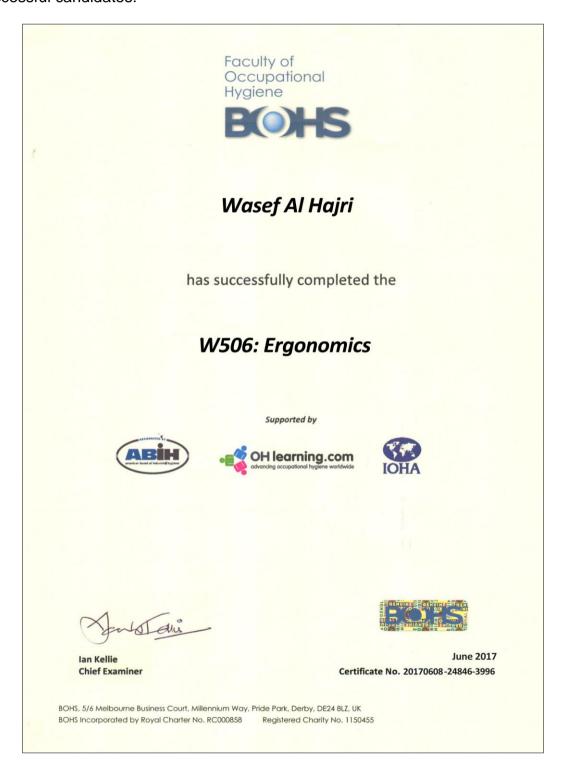


Course Certificate(s)

(1) BOHS Certificates will be issued to participants who have successfully completed the course and passed the exam of the course.

BOHS Certificate(s)

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



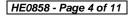
























(2) Official Transcript of Records will be provided to the successful delegates with the equivalent number of ANSI/IACET accredited Continuing Education Units (CEUs) earned during the course.



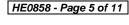






















Certificate Accreditations

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



<u>The British Occupational Hygiene Training Association</u> (OHTA-BOHS)

Haward Technology is an OHTA Approved Training Provider under the W201 and W500 series modules that promote better standards of occupational hygiene practice throughout the world. OHTA is the British Occupational Hygiene Training Association.

Haward Technology supports hygiene professionals who wanted people around the world to enjoy the benefits of healthy working environments.

ACCREDITED
PROVIDER

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 **4.5 CEUs** (Continuing Education Units) or **45 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.



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.





















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 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, Handling Hazardous Chemicals, 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, Radon/Thoron Assessment, Radiation Protection Safety, **Radiation** with 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 held an Intermediate Certificate in Mine Environmental Control. 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.





















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:	Sunday, 03 rd of November 2024
0730 - 0745	Registration & Coffee
0745 - 0800	Welcome & Introduction
0800 - 0815	PRE-TEST
0815 – 0930	Overview of Ergonomics: General Principles Aims, Objective and Benefits of Ergonomics ● Definition & Scope of Ergonomics & System of Work ● The Role of The Ergonomist ● Fitting the Job to the Person & the Person to the Job ● Human Characteristics, Capabilities & Limitations ● Human Error ● Teamwork & Ageing ● Interfaces Between Job, Person & Environment ● Human Computer Interaction
0930 - 0945	Break
0945 – 1200	Overview of Ergonomics: Biological Ergonomics Body Systems - Musculo-Skeletal & Nervous ● Anatomy, Static & Dynamic Anthropometry ● Biomechanics ● Applying Work Physiology - Body Metabolism, Work Capacity & Fatigue ● Static & Dynamic Postures
1200 - 1230	Lunch
1230 – 1430	Overview of Ergonomics: Psychology Perception of Risk ● Motivation & Behaviour ● Memory ● Signal Detection Theory & Vigilance ● Work Stress – Causes, Preventative & Protective Measures ● Work Organization – Shift Working & Overtime
1430 – 1445	Break
1445 – 1720	Overview of Ergonomics: Developing an Ergonomic Strategy at Work Culture of an Organization – Commitment & Decision Making • Macro- Ergonomics & Participatory Ergonomic Teams • Ergonomics at the Design Stage • Developing Ergonomics, Professional Ergonomists & Competence
1720 – 1730	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
1730	End of Day One
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Monday, 04th of November 2024 **Day 2:**

0730 - 0930	Ergonomics Methods & Techniques: Work Design Task Analysis & Allocation of Functions • User Trials • Problem Solving – Scientific Method
0930 - 0945	Break
0945 – 1200	Ergonomics Methods & Techniques: Ergonomics Risk Assessment Definitions of Hazard & Risk ● Priorities ● Risk Evaluation Quantity & Quality of Risk
1200 - 1230	Lunch
1230 – 1430	Ergonomics Methods & Techniques: Ergonomics Risk Assessment (cont'd) Assessment Systems • Overall Ergonomics Approach • Control Measures Monitoring & Feedback























1430 – 1445	Break
1445 – 1720	Ergonomics Methods & Techniques: Measurement & Information
	Gathering
	Ergonomics Standards • Observational Techniques • Rating Scales,
	Questionnaires & Checklists • Use of Models & Simulation
1720 – 1730	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
1730	End of Day Two

Tuesday, 05th of November 2024 Day 3.

Day 3.	ruesday, 05 or November 2024
0730 - 0930	Musculo-Skeletal Disorder: Manual Handling
	The Nature & Causes of Manual Handling Disorders • Risk Assessment
0930 - 0945	Break
	Musculo-Skeletal Disorder: Manual Handling (cont'd)
0945 - 1200	Job Design & Training • Principles of Handling & Preventative & Protective
	Measures
1200 - 1230	Lunch
	Musculo-Skeletal Disorder: Work Related Upper Limb Disorders
1220 1420	(WRULD)
1230 – 1430	The Nature & Causes of WRULD/Repetitive Strain Injuries /Cumulative
	Disorders
1430 - 1445	Break
	Musculo-Skeletal Disorder: Work Related Upper Limb Disorders
1445 – 1545	(WRULD) (cont'd)
	Risk Assessment
1545 – 1720	Musculo-Skeletal Disorder: Work Related Upper Limb Disorders
	(WRULD) (cont'd)
	Principles of Control, Preventive & Protective Measures
1720 – 1730	Recap
1730	End of Day Three

Day 4. Wednesday 06th of November 2024

Day 4.	wednesday, 00°° of November 2024
0730 - 0930	Workplace, Job & Product Design: Workplace Layout & Equipment Design Principles of Workstation & System Design • Space & WorkStation Design Principles
0930 - 0945	Break
0945 – 1200	Workplace, Job & Product Design: Workplace Layout & Equipment Design (cont'd) Risk to Health (Musculoskeletal Problems, Visual Fatigue, Mental Stress, Requirements for Eye Tests • Design Consideration for Visual Display Unit (VDU) Stations (Ergonomic Factors, Work Stations, Design of Work & Practice, Carrying out Assessments of Risk at VDU Work Stations)
1200 - 1230	Lunch
1230 - 1430	Workplace, Job & Product Design: Controls, Display & Information Visual, Auditory & Other Displays • Quantitative & Qualitative Information
1430 – 1445	Break





















1445 – 1720	Workplace, Job & Product Design: Controls, Display & Information (cont'd) Compatibility & Population Stereotypes • Warnings, Signs & Labels • Sources & Selection of Data • Principles of Software Ergonomics
1720 – 1730	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
1730	End of Day Four

Day 5:	Thursday, 07 th of November 2024
	Relevant Physical Factors of the Work Environment: Lighting
0730 – 0830	Visual Acuity & Colour Vision • Lighting Levels, Contrast & Glare •
	Reflections & Flicker Fusion
0830 - 0900	Relevant Physical Factors of the Work Environment: Noise
	Noise Induced Hearing Loss • Distraction, Annoyance & Emergency Signals
	Relevant Physical Factors of the Work Environment: Thermal
0900 - 0930	Environment
0300 - 0330	Body Temperature Regulation & Acclimatisation • Subjective Assessments –
	Thermal Comfort & Discomfort
0930 - 0945	Break
	Relevant Physical Factors of the Work Environment: Other
0945 - 1100	Considerations
	Smell, Taste & Tactile Senses • Vibration-Effects & Subjective Assessments
	Relevant Physical Factors of the Work Environment: Clothing &
1100 – 1215	Protective Equipment
1100 1210	Objective & Subjective Effects • Risk Perception & Wearability • Design,
1015 1045	Style & Fit Lunch
1215 – 1245	
1245 - 1300	Standards & Social Aspects: Standards
	ISO Standards • Sources of Other Standards
1300 - 1430	Standards & Social Aspects: Selection & Training Training Needs Analysis ● Testing & Interview Techniques
1430 - 1445	Break
1430 - 1443	
1500 – 1645	Standards & Social Aspects: Instruction & Supervision Health Information, Legal Instruments, & Supervision & Resource & Massacrine
1500 - 1645	Health Information, Legal Instruments • Supervision & Records • Measuring Health & Illness
	Course Conclusion
1645 - 1700	Using this Course Overview, the Instructor(s) will Brief Participants about the
1010 1700	Course Topics that were Covered During the Course
1700 – 1715	POST TEST
1715 – 1730	Presentation of Course Certificates
1730	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 7 days following the course completion. Each participant has only one trial for the MOCK exam within this 7-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.

Dav 6: OHTA BOHS Online Exam (to be scheduled within 30 days of course completion)

0900 - 0915	OHTA-BOHS Exam Registration/Briefing
0915 - 1145	OHTA-BOHS Exam
1145 - 1200	Closing Ceremony
1200	End of Exam

Practical Sessions

This practical and highly-interactive course includes the real-life case studies and exercises:-



Course Coordinator

Jaryl Castillo, Tel: +974 4423 1327, Email: jaryl@haward.org











