

# Occupational & Environmental Medicine Gate

## ABOUT

*Prof. Dr. Mohamed El-Helaly*

*Professor and Head of Occupational & Environmental Medicine Division*

*Public Health & Community Medicine Department*

*Faculty of Medicine, Mansoura Univ., Egypt*



*Occupational and environmental medicine is not a new branch of medicine, however, it becomes a very important specialty nowadays worldwide. Currently, the occupational medicine physicians are highly required by the international market not only for the industrial sector but also for healthcare facilities, service and entertainment industries, and others.*

*According to the International Labor organization (ILO), 2019: about 2.78 million workers die each year from occupational diseases and workplace accidents. This lead to lost working days and money that consume 4 to 6 % of the world's GDP (global Gross Domestic Product) each year. These numbers are expected to increase in the future due to ineffective control measures and production of more chemicals and technologies that expose workers to more dangers agents*

*In line with this, the OEM division in the public health and community medicine department, is doing its best to provide a high quality educational courses for both undergraduate and postgraduate medical students, so they can have the opportunity to choose this field as their career in the future, providing a high quality occupational medicine*

*services to the local, national and international workforce. We hope that this will contribute well to promote the health of the workers and to prevent the occurrence of occupational disease, disorders and accidents.*

*Our department professors and staff have a great role in promoting the health of our local and national work population through providing their professional consultation, offering health education and participating in national and international projects and grants.*

*Moreover, our staff have published a lot of international publications and some of them got a national and international scientific prizes and appreciation in the field of OEM. However, our division still need support to develop its resources and abilities to grow more and achieve its mission and goals.*

### **Mission**

*We convey about justifiable, affirmative changes in the health of the workers by providing a unique platform of teaching, research and occupational health service – to educate the future medical alumni who striving to discover and extent elucidations to occupational health coercions and problems; and transform research into operational practices.*

### **Vision**

*Our vision is a world with workers living in a healthy workplace.*

### **Goals**

- *To educate students in occupational & environmental medicine competencies with an accredited curriculum.*
- *To actively participate in the scientific research in the field of OEM.*
- *To generate occupational health knowledge.*
- *To participate in occupational health advocacy, policy, and practice at a local, national, and worldwide level.*

## **SERVICES**

- Teaching Occupational and Environmental medicine for undergraduate and postgraduate medical students
- Teaching Occupational Health and Safety
- Teaching Biostatistics course for undergraduate and postgraduate medical students and other students in other faculties such as The faculty of Nursing

- Providing consultations on Occupational Health and Safety
- Providing consultations on Scientific medical writing
- Providing consultations on Research methodology
- Participation in local and International Conferences related to the field of Occupational Health and Safety
- Participation in local and International Research in the field Occupational Health and Safety

## OEM SEMINARS

1- Prof. Mohamed El-Helaly: **ICD-11, Public Health, Research & Occupational Medicine Perspectives.** 26 SEP 2021



# CASE OF THE MONTH

## 1- OEM Case of October 2021 (by Prof. Mohamed El-Healy)



In the faculty of Fine Arts, a group of 3 students were assigned to paint 2 by 2 meters canvas using oil paintings, as a requirement to pass the 2<sup>nd</sup> semester exam. The painting would be finished in 5 days, so the students spent long hours daily in the faculty' oil painting studio to finish their project. However, the studio was ill-ventilated with no controlled cabinets to store art materials.

On the 3<sup>rd</sup> day of working on their projects, 2 of them had dry cough and red eyes. The third student developed chest wheezes and shortness of breath and he was sent by ambulance to the emergency hospital for treatment. Unfortunately they could not finish their project and the dean of the faculty asked the department head to stop their project and to evacuate the studio.

- A. If you're the occupational medicine physician of that faculty, explain how could you manage this case using risk assessment tools to further investigate this incidents
- B. Give examples of different occupation categories of artists, and toxic agents each of them are exposed to?
- C. What are the body systems which can be affected by toxic materials used in art making?
- D. The dean stopped using the studio, is this enough for health and safety of students and staff? If no, write down the complete recommendations to ensure health and safety in using such studios, to be sent to the dean to implement?

# TRAINING

**مقترح دورات فى مجال الصحة والسلامه المهنيه ( تحت الاعداد):**

- 1- Basics of Occupational Health and Safety
- 2- Laboratory Occupational Health and Safety
- 3- Occupational diseases: History, Diagnosis and Prevention
- 4- Personal Protective Equipment in Workplace
- 5- Hazard Identification, Risk Assessment & Control Procedure
- 6- First Aid Measures in Workplace
- 6- Safety Data Sheets: Description and How to Use
- 8- Hazard Communication (HAZCOM) Program in Workplace
- 9- Occupational Health and Safety in Healthcare Facilities
- 10- How to Prepare and Implement Occupational Health and Safety Programs
- 11- Occupational Health and Safety: Chemicals
- 12- Occupational Health and Safety: Ionizing Radiation
- 13- Occupational Health and Safety: Non-Ionizing Radiation
- 14- How to Set Ergonomic Program at Work
- 15- Ergonomics in Workplace
- 16- Ergonomics in Medical Lab
- 17- ICD-11 and Occupational Health
- 18- Egyptian Schedule of Compensable Occupational Diseases: History and updates
- 19- Occupational Medical Surveillance
- 20- Occupational Medical Exams
- 21- Pulmonary Function, Spirometry and Program in Workplace
- 22- Audiometry, Audiometer and Audiogram in Workplace
- 23- The Egyptian Work Law
- 24- Disability Assessment in Workplace
- 25- Screening and Early Detection of Occupational Diseases
- 26- Workplace Accidents and Prevention
- 27- Hierarchy of Control of Occupational Hazards
- 28- Pre-Exam Training Course for NEBOSH
- 29- Pre-Exam Training Course for OSHA General Industry
- 30- Food safety
- 31- Ambient and Personal monitoring in workplace

# CONTRIBUTION TO INTERNATIONAL OEM CONFERENCES

## Prof. Emily Kame:

- A registered student/visitor to the Center for Occupational and Environmental Health, School of Epidemiology and Health Sciences, University of Manchester, UK in 1994.
- A scientific visitor to the Department of Psychiatry and Psychology at Guy's Hospital, King's College, University of London, UK in 1999.
- A presenting author in a conjoint State-Of-The-Art-Conference / International Commission of Occupational Health (SOTAC / ICOH) meeting in Vancouver, Canada in October 25 - 28, 2007

## Prof. Mohamed El-Helaly:

- **American Occupational Health Conference (AOHC)**, held by American Collage of Occupational Medicine; Chicago, Illinois, USA, April 10-13, 2016. ePoster [Occupational Factors Associated With Carpal Tunnel Syndrome among Laboratory Technicians].
- **American Industrial Hygiene Conference and Exhibition**, held by American Industrial Hygiene association, Baltimore, MD, USA, 21-26 May, 2016. Speaker [Oil Painting, a hobby or a group of hazards, Ignite presentation].
- **ICD-11: A focus on Occupational Health**. A webinar held by The WHO Classification & Terminologies Unit and The Occupational health Program in collaboration with International Labor Organization. 17 September, 2021
- **21st International Conference on Healthcare Management and Work Design**. Venice, Italy. April, 11-12, 2019. Attendance and active participation
- **International Conference on Allergy, Asthma, Immunology and Rheumatology, Paris**, France 20-21 July, 2015. Attending and active participation.
- **Wellbeing at Work international conference, Copenhagen, Denmark**, 20-23 May, 2014 .Poster and active participation [Work-related Musculoskeletal Disorders among Central Sterile Supply Staff in Reference to Physical and Psychosocial Factors at Work].
- **2<sup>nd</sup> International Industrial and Environmental Toxicology Congress** (online), November 18th to 25nd, 2020. Speaker: Occupational Chemical Exposure in Healthcare Industry.
- **19<sup>th</sup> International Conference on Hospital Acquired Infections**, Rome, Italy, May 4-5, 2017. Attending and active participation.
- **22<sup>nd</sup> International Conference on Public Health Studies and Infectious Diseases**, Athens, Greece. April, 9-10, 2020. Online participation
- **2nd International Conference and Exhibition on Occupational Health and Safety**, 21-22 May, 2013, Bijien China. Speaker [pre-employment screening of Tuberculosis among Healthcare workers].
- **Speaker** (General Laboratory Safety) in **Safety Training Course held in King Abdullah International Medical Research Center (KAIMRC), Riyadh SA**, 7 Nov., 2018.
- **Speaker** (Hazcom awareness) in **Safety Officers Training Course held in King Abdullah International Medical Research Center (KAIMRC), Riyadh SA** 20 May, 2018.

# CERTIFICATIONS & TRAINING IN OEM:

## Prof. Emily Kame:

- **A training course in "The therapeutic and industrial uses of radioisotopes and the health and safety principles for prevention and control of human exposure to ionizing radiation"** organized by the Nuclear Energy Authority of Egypt from 4-15-2000 to 5-17-2000.
- **A training course on "Some advanced epidemiological and Biostatistics methods: Randomized clinical trials and Randomized cluster trials and Meta-analysis"** organized by Quality of Health Services Unit of Faculty of Medicine, Ain-Shams University from March 6-9, 2000.
- **A condensed and scientific training and applied course on "Occupational Health Update"** held in the Industrial Medicine and Occupational Diseases Department, Cairo University during the period from 9-13-2003 to 9-14-2003.
- **A workshop entitled "Protection of the Environment from Pollution with sources of Ionizing Radiation and other Sources of Pollution"** organized by the Regional Middle-Eastern Radioisotope Centre for the Arab Countries during the period from 12-10-2008 to 23-10-2008.

## Prof. Mohamed El-Helaly:

- **Training course on How to Assess and Manage Nanomaterial Risks**, by American Industrial Hygiene Association, Baltimore, MD, USA, 22nd of May, 2016.
- **NEBOSH, International General Certificate in Occupational Health and Safety**, The National Examination Board in Occupational Safety and Health, UK, 2012.
- **30 h Training Course of Occupational Safety and Health Standards for the General Industry, OSHA 511**. Instructor: Mr. Bill Menrath, MS - Department of Environmental Health University of Cincinnati College of Medicine, 18th to 22th October, 2008.
- **Laboratory Ergonomic Training Course**, MNGH-Riyadh, SA, 2015. Course director and instructor.
- **Workshop in Environmental Protection from Radioactive Pollution**, at Middle Eastern Radioisotope Centre for The Arab Countries, 12th to 23rd October, 2008
- **Training course in New Diagnostic Methods Used in Occupational Disability Evaluation**. Fitness and Rehabilitation Unit. Faculty of Medicine, Cairo Univ., Egypt 2006
- **Condensed Scientific Training and Applied Course On: Principles Of Cardiopulmonary Exercise Testing and Its Interpretation**. Fitness and Rehabilitation Unit, Faculty of Medicine, Cairo Univ., Egypt, 2005.
- **Essential IP&C Measures for Ebola Virus Disease, World Health Organization** (regional office for the eastern Mediterranean) and, MNGHA, Riyadh, SA; 27-28 May 2015. Instructor.
- **Infection Control Readiness Program for Viral Hemorrhagic Fever**, Postgraduate Center, King Saud bin Abdulaziz Univ (KSAU-HS). for Health Sciences, Riyadh, SA, 27-28 May 2015. Speaker
- **Hazard Communication, The National Antivenom And Vaccine Production Center**, MNGHA, Riyadh, SA, 4-5 Nov, 2015. Course director and instructor
- **The Science of The Profession, Course, APIC** and postgraduate training center, KSAU-HS, Riyadh, SA, 25-27 Feb 2014. Speaker.
- **Construction In Healthcare; Standards, Safety & Technique.**, postgraduate training center, KSAU-HS, Riyadh, SA, 13-14 May 2014. Speaker.

## Assistant Prof. Hala Abou-ElWafa:

- Online course: **Methods of measurement, evaluation, and preparation of the test item - the health sector** (August 19-20, 2020)

- **SPSS course** (September 8-19, 2013) at Information and Communication Technology Project (ICTP) Centre at Faculty of Medicine-Mansoura University

### **Assistant Prof. Enas Elsherbeny.**

- The University Of North Carolina At Chapel Hill's Open Online Course (Epidemiology: the basic science of public Health) held for six weeks on-line interactive learning accomplished with distinction at 7 April, 2014 done by Coursera ([www.coursera.org](http://www.coursera.org)).

### **Assistant Prof. Eman Khashaba**

- Hazardous medical waste. Mansoura faculty of medicine, 2017
- Occupational health and safety in Healthcare facilities, Mansoura faculty of medicine, 2016



# CERTIFICATIONS GALLERY



May 31, 2016

**To Whom It May Concern:**

Dr. Mohamed Elhelal Ibrahim registered and attended AIHA 2016, from May 22-26, 2016, in Baltimore, Maryland. AIHA no longer issues certificates of completion for our conference/courses, in their place we have instituted an online transcript of training as displayed in the draft below.

Should you have any questions or concerns regarding Mr. Ibrahim's record or attendance, please feel free to contact me directly.

**ALERT:** AIHA hosted course convert to CEU points (3 hours = 1 point) for further identification, see [www.aiha.org](http://www.aiha.org)

Name	Activity Date	Approval Code	Points	Provider	Credit Status	CEU	CEU Code	CEU Hours	CEU Points	Contact Hours	Other Hours
AIHA 2016 - Baltimore, MD	02/22/2016	MA		AIHA/AIHA	Attended	26	01	01	26	36	N/A
POC 501 - How to Assess and Manage Monofatral Risk	02/20/2016	MA		AIHA/AIHA	Present	2	01	01	2	4	N/A

Best Regards,

Erin Gleason  
 Manager, Global Education  
 AIHA ©  
[erin@aiha.org](mailto:erin@aiha.org) - email  
 +1-703-543-0149 - direct

AIHA is an Equal Opportunity Employer. 2114 Riverchase Park Drive, Suite 110, Falls Church, VA 22046 USA  
 Fax: +1-703-549-0908, Toll Free: +1-800-451-5800

## University of Cincinnati

Continuing Medical Education  
 A Member of the Great Lakes Regional OTI Education Center

**MOHAMED EL HELALY**

**OS&H Standards For General Industry, OSHA 511**

511-38

Certificate Number

---

10/15/2005 - 10/22/2008

Course Dates

Course Director

---

2.60

Continuing Education Units

---

3.50 (S) Approx. #07-2595

AIHA/CEU Credits

Office of Continuing Medical Education, 1100 University of Cincinnati, Cincinnati, Ohio 45221-0100, 513-763-1100



**nebosh**

**Management of international health and safety**

A unit of the NEBOSH International General Certificate in Occupational Health and Safety

**Mohamed El-Helaly**

achieved this unit on  
28 June 2012

Sir Bill Callaghan  
Chair 

Teresa Budworth  
Chief Executive 

Master log certificate No: 10C18607242217181

The National Examination Board in Occupational Safety and Health  
Registered in Wales No. 2001102  
11 Chiswick Uxbridge  
Middlesex Uxbridge  
Uxbridge No. 107044



**nebosh**

**International health and safety practical application**

A unit of the NEBOSH International General Certificate in Occupational Health and Safety

**Mohamed El-Helaly**

achieved this unit on  
26 October 2012

Sir Bill Callaghan  
Chair 

Teresa Budworth  
Chief Executive 

Master log certificate No: 10C1860125402415557

The National Examination Board in Occupational Safety and Health  
Registered in England & Wales No. 2001100  
11 Chiswick Uxbridge  
Middlesex Uxbridge  
Uxbridge No. 107044

CAIRO UNIVERSITY FACULTY OF MEDICINE FITNESS And REHABILITATION UNIT

**CERTIFICATE**

KASR EL-AINI, FACULTY OF MEDICINE CERTIFIES THAT

*Dr. / Mohamed El Helaly Nasr El Deen*

Has successfully completed the condensed scientific training and applied course on:

**Use of different diagnostic tools in disability evaluation**

That has been held in the Fitness & Rehabilitation Unit, Cairo University during the period from 23 December to 28 December 2007

Director of the Unit Course Supervisor  Prof. Dr. Yehia A Zakaria

Dean Faculty of Medicine  Prof. Dr. Ahmed Sameh Farid

CAIRO UNIVERSITY FACULTY OF MEDICINE FITNESS And REHABILITATION UNIT

**CERTIFICATE**

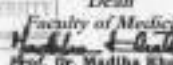
KASR EL-AINI FACULTY OF MEDICINE CERTIFIES THAT

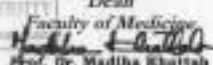
*Dr. / Mohamed EL Helaly Nasr EL Din*

Has successfully completed the condensed scientific training and applied course on:

**Management of occupational respiratory health and environment**

That has been held in the Fitness & Rehabilitation Unit, Cairo University during the period from 14-18 December 2003

Director of the Unit Course Supervisor  Prof. Dr. Yehia A Zakaria

Dean Faculty of Medicine  Prof. Dr. Madha Elhatab

## IMPORTANT LINKS

- US OSHA: <https://www.osha.gov/>
- European OSHA: <http://europe.osha.eu.int>
- NIOSH: <http://www.cdc.gov/niosh/homepage.html>
- ACOEM: <http://www.acoem.org>
- WHO: <http://www.who.int/home-page>
- ILO: <http://www.ilo.org/public/English>
- ICOH: <http://www.icoh.org.sg/eng/index.html>
- HSE (UK): <http://www.hse.gov.uk>
- EPA: <http://www.epa.gov/>
- CDC: <https://www.cdc.gov/nchs/icd/icd10cm.htm>

## LIBRARY

- **Link to international Occupational Medicine library**
- <https://guides.library.uq.edu.au/occupational-health-and-safety-science>
- **Encyclopedia of Occupational Health and Safety – ILO:**
- <https://www.iloencyclopaedia.org/>
- Link to OSHA training library:
- <https://www.osha.gov/training/library/materials>
- Link to CDC Public Health Library
- <https://www.cdc.gov/publications/>

## CONTACT US

**mhelaly72@gmail.com**

**mhelaly72@mans.edu.eg**