



# OCCUPATIONAL HEALTH

## Introduction to Occupational Health

Global Occupational Health and Safety (OH&S) is highly related to the drive of economic globalization. The gap between developed and underdeveloped countries increases as the global market grows, which generates many issues related to OH&S services in developing countries, such as occupational diseases, poor working conditions, and injuries. Although the economic gap and lack of resources are the main reasons for such problems, other issues in developing countries had contributed to the low status of OH&S services, including untrained workers, informal and illegal labor, lack of law enforcements, and the poor conditions of construction and agricultural sectors.

Public health including workers' health is affected by this current situation. Inadequate training and education and lack of resources have influenced the OH&S services in many countries in the region. Additionally, the fragile infrastructure and lack of awareness regarding the importance of OH&S services increase the necessity for a high-quality training program in the field. Thereby, developing a tailored training program is a guaranteed way to enhance the infrastructure, increase the level of awareness, and improve the working conditions of many workers

## Occupational Health Programs

The training in Occupational Health consists of three programs, with three months duration for each program:

Program 1: Foundations in Global Environmental and Occupational Health

Program 2: Management of Occupational Health and Safety

Program 3: Occupational Health Risk Management

## Eligibility Criteria

- Bachelor's degree from a recognized university in health, medicine, behavioural, or social sciences, or any other related field of science.
- Preferably with work experience in a health-related field
- Demonstrated ability to study in English

**Residents who complete the nine-month program requirements will be awarded a Higher Diploma Certificate (HDC)**

<b>In All Programs:</b>	<b>Training Delivery method</b>	<b>Training Language</b>
	- In-class method - Blended learning method	- Arabic - English

## Who Should Apply

The programs are targeting professionals working for ministries of health, non-governmental organizations, and humanitarian agencies. They are also valuable for those looking for a career in environmental and occupational health.

## Program Overview

The purpose of the Foundations in Global Environmental and Occupational Health (GEOHealth) program is to provide residents with the basic knowledge on core public health disciplines that are related to the field of GEOHealth. Residents completing this program will have a solid foundation in public health that enables them to take further steps in the field. GEOHealth modules and training are expected to bring together multiple disciplines to advance the ability of residents to use scientific methodologies in their future career. This program is a three-months foundation level program which is a part of a nine month program.

## Learning Outcomes

By the end of the program, participants will be able to:

- Describe the major factors that influence the health of individuals and populations worldwide and their complexities
- Identify the major classes of environmental hazards, their sources, and mechanisms for injury and susceptibility
- Identify approaches for preventing and mitigating environmental hazards, and protecting populations from environmental hazards
- Describe a public health problem in terms of magnitude, person, place, and time, and calculate basic epidemiological measures
- Select and apply simple statistical analyses and interpret the results for given research hypotheses
- Apply knowledge of the principles of toxicology in the evaluation and prediction of exposure to toxic substances

## Training Courses

- Introduction to Public Health
- Basic Epidemiology
- Epidemiology of Environmental and Occupational Health
- Introduction to Global Environmental Health
- Principles of Toxicology

## Field Work

Residents spend seven weeks in the field work in order to be exposed to real-life situations and to practice the skills they gain with the guidance of a dedicated mentor. The following field projects are expected to be conducted during the field work period:

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- Identify public health problems and comprehend the use of data in public health sectors
- Apply methods of epidemiology, biostatistics, and environmental health in the field
- Evaluate and distinguish environmental and occupational threats in a community

Residents who complete the three-month program requirements will be awarded a Post Graduate Certificate (PGCert) issued by International Academy of Public Health (IAPH) and accredited by Agency for Public Health Education Accreditation (APHEA).

## Program Overview

Advanced Occupational Health and Safety (OH&S) is the building block for residents who are interested in specializing in the field of OH&S or have the desire to further develop their skills. The curriculum of this 3-month program will introduce residents to the basic concepts of OH&S, Occupational Safety and Health Administration (OSHA) regulations, as well as principles of risk identification and management. The program will help residents gain the essential level of knowledge and training in OH&S that is applicable to all occupations and industries, in addition to comprehending the level of training required for a particular area of interest. Residents' completion of this program will enable them to recognize and manage physical and chemical risks and other types of stressors that affect the health of workers. They will contribute to improving the employability of workers through workplace re-design, maintenance of a healthy and safe work environment, training and retraining, assessment of work demands, medical diagnosis, health screening, and assessment of functional capacities.

## Learning Outcomes

By the end of the program, participants will be able to:

- Assess and manage a range of hazards in work settings and their associated occupational disorders
- Reflect on the benefits of applying occupational health and safety principles in the workplace and their impact on safety and productivity
- Identify sources of indoor pollutants and apply measures to minimize and reduce their pollution
- Manage hazardous waste through its identification, application of regulations, and incorporation of control techniques
- Draw appropriate inferences from epidemiologic data related to occupational health and safety hazards

## Training Courses

- Occupational Health and Safety
- Indoor Air Quality
- Infection Prevention and Control
- Hazardous Waste Management
- Applied Research in Occupational Health

## Field Work

Residents spend seven weeks in the field work in order to be exposed to real-life situations and to practice the skills they gain with the guidance of a dedicated mentor. The following field projects are expected to be conducted during the field work period:

- Conduct an assessment of the common hazards in their work setting
- Develop a risk reduction plan for the assessed hazards
- Conduct an event to share the findings with the relevant staff in the workplace and raise issues related to safety measures

Residents who complete the three-month program requirements will be awarded a Post Graduate Certificate (PGCert) issued by International Academy of Public Health (IAPH) and accredited by Agency for Public Health Education Accreditation (APHEA).

## Program Overview

Courses in this program will increase the ability of residents to predict and analyze risks, design studies compatible with the workplace, and make judgements regarding the safety of workers.

The program's total duration is three months, which is composed of five weeks of In class/online study and seven weeks of on the job training supervised by a dedicated mentor.

## Learning Outcomes

By the end of the program, participants will be able to:

- Design research studies to assess hazards and risks in the workplace
- Conduct qualitative and quantitative risk assessments: hazard identification, dose-response evaluation, exposure assessment, and risk characterization
- Develop plans to manage occupational health and safety risks in the workplace
- Apply the fundamental principles of communication and message development to design community outreach programs
- Demonstrate leadership skills in relation to a workplace's occupational health and safety services
- Train and educate others in the basic concepts of occupational health and safety

## Training Courses

- Occupational Risk Assessment
- Occupational Risk Management
- Occupational Risk Communication
- Management and Leadership
- Scientific Writing

## Field Work

Residents spend seven weeks in the field work in order to be exposed to real-life situations and to practice the skills they gain with the guidance of a dedicated mentor. The following field projects are expected to be conducted during the field work period:

- Apply latest methods in risk assessment for different environmental exposures.
- Communicate risk assessment evaluation clearly to the public.
- Conduct interventions for environmental health issues.
- Analyze and criticize different research outlets At the end of the program, residents reconvene for final presentations and discussion.

Residents who complete the three-month program requirements will be awarded a Post Graduate Certificate (PGCert) issued by International Academy of Public Health (IAPH) and accredited by Agency for Public Health Education Accreditation (APHEA).



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