



BOHS – OHTA APPROVED TRAINING PROGRAM



W507– Health Effects of Hazardous Substances

Date : 26th to 30th January 2017

Timing: 9:00 to 18:00 IST

Location: IIPHG, Opposite Air Force HQ,
Palaj Village, Lekawada Cross Road,
Chiloda Road, Gandhinagar, 382355
Gujarat

Organized By



Formed as University under IIPHG Act, 2015 of Gujarat State

In Association, with



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COURSE AIM

The course introduces students to the health hazards of substances that are used at work. It describes where hazardous substances are commonly used in industry and what their harmful effect can be. It also explains the underpinning principles of physiology, toxicology and epidemiology.

COURSE FORMAT

- 5-days course [minimum 45 hours including practical/demonstration sessions, lectures, tutorials, guided reading, overnight questions and examination].
- There will be a 40 short answer questions “open book” examination with an allowed time of 120 minutes.

LEARNING OUTCOME

On completing this course successfully, the student will be able to:

- Provide definition of commonly used toxicological terms
- Describe the main routes by which hazardous substance can enter the body, and the factor which influence their absorption, distribution, storage and elimination
- Describe the main source of information on hazardous substances and processes
- Recognise hazardous substances in the workplace
- Describe the main features of the principal target organs affected by hazardous substance at work, and the factors which influence the degree of harm
- Describe the main feature of exposure for hazardous substances commonly encountered in the workplace
- Describe the health effect of some common hazardous substances
- Undertake basic interpretation of the results from epidemiological studies

COURSE FEE

For W507 module with exam : 35,000/- + 15%Taxes
After last date of registration : 45,000/- + 15%Taxes

Special Discount:

ASSE Member & IIPHG Students – 5% on fees

Cost includes Training material, Breakfast, Lunch, Tea & evening snacks. Stay facility available with extra cost.

For international student contact to given email.

TRAINERS

Dr. Shyam Pingle

MBBS, MD, AFIH, DOSH&D(Sweden)
Senior Occupational Health
Specialist and Adjunct Professor,
IIPHG, Gandhinagar

Dr. Pingle has been trained in
Occupational Health & Safety at
National Institute of Working Life, Stockholm,
Sweden and Ludwig Maximilian University,
Munich, Germany.

Work Experience: Occupational Health Physician with rich work experience of more than 37 years and as occupational health and safety leader in leading national and international industrial corporations. Dr Pingle was the National President of Indian Association of Occupational Health during 2009-2011. He is an active member of the International commission on Occupational Health (ICOH) and has been heading the Scientific Committee on 'Occupational Health & Development' as Chair during 2009 to 2015.

Utpal Bhavsar CIH, CSP

Principal Owner & HSE Professional
Sustainable EHS LLP

Work Experience:

Work for >13 years in HSE
Functions in various industries
at plant level & corporate HSE
functions

Education:

Masters in Industrial Hygiene
Masters in Environment Science, Masters in
Disaster Mitigation, BS in Industrial Microbiology
PGDIS, Lead Auditor Training for ISO 14k, 9k &
OHSAS 18K.

+IIPHG expert/s +Subject Matter Expert/s



LAST DATE OF REGISTRATION

19th Jan 17, No discount after this date.



COURSE CONTENT

1. Introduction of Toxicology
 - 1.1 Introduction and historical perspective
 - 1.2 Some basic toxicological term and concepts
2. Type of Health Effects
 - 2.1 Asphyxiation
 - 2.2 Irritation
 - 2.3 Narcosis
 - 2.4 Systemic toxicity
 - 2.5 Genotoxicity and carcinogenicity
 - 2.6 Sensitisation (Allergic reaction)
 - 2.7 Reproductive effects
3. Basic Human Biology and Target Organs
 - 3.1 Respiratory system
 - 3.2 The skin
 - 3.3 Nervous system
 - 3.4 Circulatory system
 - 3.5 Liver
 - 3.6 Kidney
 - 3.7 Reproductive system
4. Basic Toxicokinetics
 - 4.1 Absorption
 - 4.2 Distribution and storage
 - 4.3 Metabolism
 - 4.4 Excretion
5. Dose Response Curves and Toxicity Testing
 - 5.1 Introduction to dose-response curves
 - 5.2 Toxicity testing
6. Epidemiology
 - 6.1 Introduction
 - 6.2 Reasons for undertaking epidemiological studies
 - 6.3 Types of epidemiological studies
7. Overview of Health Effects
 - 7.1 Introduction
 - 7.2 Gases
 - 7.3 Organic solvents and vapours
 - 7.4 Other selected organic liquid
 - 7.5 Metals and metal compounds
 - 7.6 Dusts and particulate materials
 - 7.7 Mineral fibres
8. Common Industrial Processes
 - 8.1 Introduction
 - 8.2 Material handling
 - 8.3 Working with metals
 - 8.4 Surface coating and treatment of metals
 - 8.5 Soldering and brazing
 - 8.6 Degreasing
 - 8.7 Painting
9. Specific Industry Profiles
 - 9.1 Introduction
 - 9.2 Smelting and refining of iron and steel
 - 9.3 Foundries
 - 9.4 Mining and quarrying
 - 9.5 Oil and Petroleum
 - 9.6 Pharmaceutical industry
10. Regulatory Consideration
 - 10.1 Risk and safety phrases
 - 10.2 sources of information
11. Biological hazards
 - 11.1 Introduction to biological hazards
 - 11.2 Legionella and humidifier fever
 - 11.3 Blood borne disease
 - 11.4 Zoonoses

BOHS –OHTA APPROVED TRAININGS

The British Occupational Hygiene Society (BOHS) founded in 1953 is a science-based, charitable body that provides information, expertise and guidance in the recognition, control and management of workplace health risks. Few International courses are:

- W501**- Measurement of Hazardous Substances (including Risk Assessment)
- W502**- Thermal Environment
- W503** - Noise - Measurement and its Effects
- W504** - Asbestos and Other Fibres
- W505** - Control of Hazardous Substance
- W506** - Ergonomic Essentials (including manual handling and DSE)
- W507** - Effect of Hazardous Substances





Indian Institute of Public Health Gandhinagar (IIPHG)

IIPHG is a pioneer institute in public health education, training, research, advocacy and policy initiatives. It was set up by Public Health Foundation of India (PHFI) and the Government of Gujarat as a joint initiative.

The Foundation Stone for IIPHG was laid by the then Honorable Chief Minister of Gujarat Shri Narendrabhai Modi in 2008. Today the IIPHG has a state of the art campus situated in Gandhinagar, with well-equipped classrooms, hostel facilities, library, and various laboratories. The institute has been recognized as the first Public Health University formed through enactment of IIPHG Act 2015 by the Government of Gujarat.



Contact Us

INDIAN INSTITUTE OF PUBLIC HEALTH GANDHINAGAR

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