Postgraduate Certificate Course In
OCCUPATIONAL
HEALTH
1st April 2019 – 30th June 2019

PROSPECTUS
AFIH 2019

Approved by
Directorate General of Factory
Advice Services and Labour Institute
Ministry of Labour
Government of India

Regional Occupational Health Centre (E)
(National Institute of Occupational Health)
Indian Council of Medical Research
Department of Health Research, Govt of India

Block DP-1, Sector V, Salt Lake City, Kolkata – 700 091
Mob. No. 9674566502 / 033 - 23674390, Fax : 033 - 23676683, E-mail : rohce.kolkata@gmail.com
ROHC (E)-NIOH-ICMR, Kolkata under the aegis of Indian Council of Medical Research, New Delhi is conducting its First Batch of three month Postgraduate Certificate Course (Associate Fellow of Industrial Health) during 1st April 2019- 30th June 2019.

In its 39 years of existence in eastern region located at Kolkata, the centre has conducted various training programmes on environmental and occupational health and trained many medical and allied professionals.

The Institute has various divisions such as Occupational Medicine, Industrial Hygiene & Toxicology, Air pollution, Biochemistry, Respiratory Physiology, Ergonomics, etc. The laboratories are equipped with the modern instruments. The centre's Institute Scientists are well qualified and have been trained in various disciplines of occupational health. This course has been planned in order to train medical professionals in industrial medicine.

**IMPORATANCE OF THE COURSE AND ACCREDITATION**

Associate Fellow of Industrial Health (AFIH) is a three month full time Post Graduate Certificate course in Industrial Health approved by Directorate General Factory Advice Service & Labour Institutes (DGFASLI), Ministry of Labour & Employment, Govt. of India. On completion of course an examination will be conducted by DGFASLI and successful candidates will be awarded Associate Fellow of Industrial Health (AFIH) which will fulfill the requirements in terms of additional qualification for Factory Medical Officers of Hazardous Process Industries as required under the Factories (Amendment) Act 1987.

**Eligibility to apply:**
1. MBBS Degree from an Institution recognised by the Medical Council of India
2. Completion of Internship
3. Permanent Registration with the State Medical Council/ Medical Council of India
4. A minimum of 1 year experience in Industry or relevant field of occupational health or 2 years experience otherwise, after completion of compulsory internship.

**Duration of the Course & Seats**

3 Months (1st April 2019 to 30th June 2019). Examination dates will be announced later.

**Number of Seats:** 25 seats only (SC/ST/OBC/PH Reservation as per Government of India rules applicable).

Proforma / Undertaking / Declaration formats for claiming the reservation are available website www.nioh.org. The intake of seats may increase depending on DGFASLI decision.

**Selection of Candidates**

A merit list will be prepared on the basis of candidate's academic qualification, experience and type of industry employed. The candidates will be selected in the Order of Preference viz., Medical Officers working in the Hazardous Industries / Government, Public Sector Undertakings, Manufacturing Industries (Non-Hazardous) etc.

**Course Fee**

Rs.45,000/- for industry sponsored candidates and Rs.40,000/- for self financed candidates. DD to be drawn in favour of “Regional Occupational Health Centre (E)”, payable at Kolkata. Payment has to be made on Confirmation of admission letter. List of selected Candidates will also be displayed in our website www.nioh.org. An additional registration fee of Rs.6,000/- is also to be paid to DGFASLI during the course period.

The candidates sponsored by the Industries, Government, Public Sector Undertakings should enclose the NO OBJECTION CERTIFICATE from the employer and candidate is responsible for collection of fees from their employer. This centre will not do any correspondence regarding fees with their employers.

**How to apply**

Prospectus and application form may be collected personally at ROHC (E), Kolkata on payment of Rs.500/- or may be downloaded from website-www.nioh.org. If the application form is downloaded from the website, please enclose the cost of application fee (Rs.500/-) as Demand Draft in favour of “Regional Occupational Health Centre (E)”, payable at Kolkata. Applicants working in Govt/Public Sector Undertakings/Private Industries etc should apply through proper channel.

Applications complete in all respects along with Self attested Xerox copies of certificates should reach the OFFICER IN CHARGE, REGIONAL OCCUPATIONAL HEALTH CENTRE (E), BLOCK DP-1, SECTOR V, SALT LAKE CITY, KOLKATA – 700 091. The envelope containing the application should be superscribed “APPLICATION FOR ADMISSION INTO AFIH 2019”

LAST DATE FOR THE RECEIPT OF FILLED IN APPLICATIONS : 28th February 2019

**Accommodation**

Limited sharing guest house facilities are available on payment basis for outstation candidates subject to availability.

Note: The candidates are requested to check at ROHC (E), KOLKATA or www.nioh.org for any updates regarding AFIH 2019 Batch Course selection / exams / results.
Theory: Various aspects of Occupational Health and Industrial Medicine Practice.

A. Occupational Health and related Statutes


Physical Health Hazards & its Management: Physical Health Hazards in Industry including heat, cold, noise, vibration, ionizing radiation, non-ionizing radiation, electricity, light, barometric pressure, electro-magnetic field etc.,

Chemical Health Hazards & its Management: Toxicokinetics – absorption, metabolism, retention, entoxification, detoxification, excretion of toxic chemicals (xenobiotics), toxicology related to different systems/organs, acute verses chronic effects, relation between workplace exposure and health effects. Metals in Industry like Arsenic & its compounds, Beryllium & its compounds, Cadmium & its compounds, Chromium & its compounds, Cobalt & its compounds, Copper & its compounds, Fluoride, Lead & its compounds, Manganese, Mercury, Nickel & its compounds, Phosphorus, Uranium. Gas, Vapor & Mist in Industry like Carbon Monoxide, Hydrogen Cyanide, Hydrogen Sulphide, Chlorine, Phosgene, Ammonia, Phosphine, Methyl Isocyanate, Sulphuric Acid, Organic Chemicals like Benzene, Toluene, Carbon Disulphide, Vinyl Chloride, Methylen Chloride (Dichloromethane). Pesticides & its toxicity.


Biological Hazards & its Management: Occupational Zoonotic Diseases.

Ergonomics & Work Physiology: Introduction to Ergonomics, application of ergonomics in industry, Stress and performance, anthropometry and work physiology, physical fitness test in industry, fatigue, VO2Max, workload.

Psychosocial Hazards: Psychosocial Hazards in Occupation and application of industrial psychology in occupational health, occupational health disorders of psychological origin, well-being programme, principle of behavioural toxicology. Shift work in industry.

System-wide injury: Cumulative Trauma Disorders, Occupational Dermatoses, Occupational Eye Injury, Workplace exposure and its effects in various systems.

Programme & Services: Occupational Health Programme: Hearing Conservation Programme, Vision Conservation Programme, Programme on NCD (non communicable diseases), Occupational Health Service, first aid service, ambulance service etc. Industrial Nutrition & Canteen services, the occupational Health Nurse and their role/services in industry.

Statistics: Epidemiology – its purpose, planning, determinants of diseases, methods. Different types of epidemiological studies like Case control & Cohort studies etc. Incidence rates, prevalence rates, mortality rates, morbidity rates, t-testing, significance testing, Chi-2-testing, correlation, research methodology and planning for research in occupational health.


B. Occupational Safety and Health Legislations


D. Industrial Hygiene: Industrial Hygiene Principles and practice, Work environment monitoring and its importance, Industrial Noise and its effects, Heat stress and its effects, Industrial Ventilation, Concept of Threshold Limit values/Permissible Exposure Limits/Recommended Exposure limits in industry. Types of radiation and Radiation Hazards, Illumination, Material Safety Data Sheets (MSDS), Biological monitoring & its analytical technique, Chemical Hazards in the work place, Selection, use and maintenance of Respiratory & Non-respiratory Personal Protective Equipment, Exposure Assessment studies in Industry.

E. Staff Training & Productivity

Elements of Training – process, assessment of training needs, design and development of training program, training methods and strategies, evaluation of training. Communication – Purpose, process, types of channels, two-way communication, barriers in communication and essentials of effective communication. Productivity- concepts and techniques, Team Building-Concepts & practices, how to make a team effective. In integrating in safety, health & environment at workplace.

Practical and Clinical Training, Educational Visits, Group Discussions, Project Work etc., Project work at work place will required to be carried out. Industrial visits will be made to Pharmaceutical, Cement Manufacturing, Chemical, Automobiles, Foundries, Garment and other important industries.

*As per DGFASLI Guidelines.
## APPLICATION FOR ADMISSION

**ASSOCIATE FELLOW OF INDUSTRIAL HEALTH (AFIH) - 2019**

(All information should be filled in **CAPITAL LETTERS** only)

**Strike off the option not applicable**

<table>
<thead>
<tr>
<th>1. Name (As written in the Medical Council Registration Certificate)</th>
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<td>2. Gender (Male/Female)</td>
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<td>3. Date of birth (dd/mm/yyyy)</td>
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<td>4. Designation</td>
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<td>5. Employer’s Address (If employed)</td>
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<td>Pin Code</td>
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<td>6. Address for correspondence</td>
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<td>Pin Code</td>
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<td>Contact No.</td>
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<td>7. Qualifications (MBBS, P.G. Degree/Diploma etc.)</td>
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<td><strong>Examination Passed</strong></td>
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<td>Name of the Institution</td>
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<td>Year of passing &amp; Date of completion of internship</td>
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<td>% of marks</td>
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<td>MCI / State Medical Council Registration No.</td>
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<td>MD</td>
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<td>Other</td>
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<td>8. a. Do you belong to SC/ST/OBC/PH?</td>
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<td>b. For OBC candidates whether Declaration/Undertaking is enclosed</td>
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<td>9. Name &amp; address of Employer Post held Period &amp; duration of Experience Total experience after completion of internship</td>
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<td>10. If employed whether ‘Sponsorship Certificate’ enclosed</td>
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<td>11. Experience (attach certificate(s) from the employer)</td>
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I hereby solemnly certify that the information given above is true and correct.

Date: ____________________________

Place: ____________________________

Applicant’s Signature: ____________________________

### List of Enclosures:

1. Self attested photo copy of:
   a. MBBS degree (Convocation Certificate)
   b. Internship Certificate issued by the medical college (not University)
   c. MCI/State Medical Council Registration Certificate
   d. SC/ST/OBC/PH Certificate issued by the competent authority, if applicable.
   e. Experience Certificate.

2. Sponsorship Certificate/No Objection Certificate in original, if employed.

3. If there is a change in name, copy of Gazette of India and Medical Council Registration with the changed name should be provided.

**Note:** List of eligible candidates for admission will be displayed on [www.niob.org](http://www.niob.org) and DGFASLI website [www.dgfasli.nic.in](http://www.dgfasli.nic.in)