

Postgraduate Certificate Course In INDUSTRIAL HEALTH

(Associate Fellow of Industrial Health)

 1^{st} April 2019 - 30^{th} June 2019

PROSPECTUS AFIH 2019 LAST DATE
FOR RECEIPT OF
APPLICATION
28th February 2019

DATE OF INTERVIEW 15th MARCH 2019

Associate Fellow of Industrial Health (AFIH)



Approved by
Directorate General of Factory
Advice Services & Labour Institutes
(DGFASLI)

Ministry of Labour & Employment, Govt. of India

ICMR - National Institute of Occupational Health
Department of Health Research, Ministry of Health & Family Welfare
Govt. of India



ABOUT - ICMR-NIOH

ICMR-National Institute of Occupational Health is a premier public health institute, which was established in 1966 as Occupational Health Research Institute (OHRI). The OHRI was later renamed as "National Institute of Occupational Health" (NIOH) in 1970 and was moved to its present premises. Since then till now, NIOH has been working continuously through its main as well as two of its regional centres – Bangalore & Kolkata. Our primary responsibility is to support the national policy makers for adopting an appropriate policy in the field of occupational health, based on felt needs of our country. This is done through multi-disciplinary research, capacity building and technological development. Considering quantum of burden of occupational diseases, >90% of our workers work in the unorganized sectors. Priority-wise we focused on working towards dust related respiratory morbidities (such as silicosis, anthracosis, byssinosis etc.). Similarly, other diseases of concern are heavy metal poisoning, musculosketal disorders, pesticide poisoning etc. in various occupational groups.



Importance of the Course & Accreditation

Associate Fellow of Industrial Health (AFIH) is a three months 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 Criteria

- 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 filed 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 applicable as per Government of India rules). Proforma / Undertaking / Declaration formats for claiming the reservation is available in the 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. Shortlisted candidates will be called for interview at ICMR-NIOH, Ahmedabad. The decision of the Selection Committee shall be final. No TA/DA will be paid for attending the interview. The candidates should produce all the certificates and documents in original at the time of interview.THE INTERVIEW SHALL BE CONDUCTED ON 15th OF MARCH 2019 AT ICMR-NIOH, Ahmedabad.



Course Fee

Rs.45,000/- for industry sponsored candidates and Rs.40,000/- for self financed candidates. Payment has to be made on Confirmation of admission letter. List of selected Candidates will also be displayed in Institute website www.nioh.org. An additional Registration fee of Rs. 6000/- also to be paid to DGFASLI during the course period The course fees and application fee will be accepted by NEFT Mode only. No other mode of payment will be accepted. NEFT transaction receipt should be sent on email afihnioh@gmail.com Bank details are as follows

Name of Bank and Branch: State Bank of India, Civil Hospital Precincts, Ahmedabad IFSC Code: SBIN0003043 Account Name: Director NIOH for Occupational Health Courses Account Number: 38251822309

Course fees, once paid, are not refundable

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 ICMR-NIOH, Ahmedabad on payment of Rs.500/- or may be downloaded from website-www.nioh.org. If the application form is downloaded from the website, pay the cost of application fee (Rs.500/-) by NEFT mode. Applicants working in Govt/Public Sector Undertakings/Private Industries etc should apply through proper channel. Applications complete in all respects along with Self attested photo copies of certificates should reach the Director, ICMR-National Institute of Occupationl Health, Meghani Nagar, Ahmedabad-380016, Gujarat, India. The envelope containing the application should be super scribed "APPLICATION FOR ADMISSION TO AFIH 2019". A Scanned copy of the entire application with enclosures & NEFT transaction receipt shall be sent to afihnioh@gmail.com, afih.ac@dgfasli.nic.in

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



Accommodation

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

(1) The candidates are requested to check at NIOH, Ahmedabad or www.nioh.org for any updates regarding AFIH 2019 Batch Course selection / exams / results.

(2) The candidates are also requested to chek their email regularly.



Course Contents & Syllabus*

Theory: Various aspects of Occupational Health and Industrial Medicine Practice.

A. Occupational Health and related Statutes

Overview of Occupational Health: Occupational Health: Introduction, History of Occupational Health, Present status of Occupational Health: Nationally and Internationally including public health & social welfare, strategy and programme of health protection and role of International Organisation, Government, employer, safety committee, trade union and employees, Occupational Health Policy in India including health care delivery system in India, Occupational Health Surveillance, Occupational Health Service at work place, Workplace Health Monitoring, maintenance of health register & records, Prevention of Occupational Health Hazards, occupational health audit and occupational Health Survey. National and International Organisations in the field of occupational health. OHS: its principles & functions, First Aid Centre, First Aid Box and industrial hospitals, Diagnosis of occupational diseases, Occupational health hazards and its preventive measures.

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, Methylene Chloride (Dichloromethane). Pesticides & its toxicity. Occupational Lung Diseases & its Diagnosis: Occupational Lung Diseases like Silicosis, Asbestosis, Coal Worker's pneumoconiosis, Mixed Dust Fibrosis. Occupational Asthma (i.e., Byssinosis) & Extrinsic Allergic Alveolitis (like Bagassosis). Pulmonary Function Test. ILO Radiograph on Pneumoconiosis. Notifiable Occupational Diseases in India as per Factories Act, 1948, ILO list of Occupational Diseases globally.

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-wise 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.

Miscellaneous: Major Accident Hazard Control in Industry & its Medical Response, Women at work, Occupational Carcinoma, Welding Hazards & its Management, Recent advance in occupational medicine and impact of nano-technology, modern concept of Occupational Health Service, Human Resource Development concept on occupational health in industry.

B. Occupational Safety and Health Legislations

ILO Conventions, The Workmen's Compensation Act, OHSAS18001, ESIC Act, The Bio-Medical Waste Rules, Mines Act.1952 & Mines Rules, 1955, The Factories Act, 1948 and State Model, MSIHC Rules 1989, Water (Prevention & Control of pollution) Act, 1974 and Rules, Air (Prevention & control of pollution) Act, 1981 and Rules, Environment protection Act 1986 (Amended) and Rules, The Dock Workers (Safety, Health & Welfare) Act, 1986 and the Regulations 1990 framed there under.

C. Industrial Safety: Principles of Accident Prevention: Definitions-Incident, Accident, Injury, safety, Hazard, Risk, Unsafe Acts and Unsafe Conditions etc. Accident Prevention, Theories/Models of Accident Occurrences, Principles of Accident Preventions. Accident and Incident Investigation: Need to investigate incidents, who, what and how to investigate incidents, various Analytical techniques to investigate incidents, preparing the incident report and corrective action. Hazard Identification, Prevention and Control: Techniques of Hazard identifications, prevention strategies and control measures through hierarchy of control. Behavior Based Safety: Need for Behavior Based Safety, Understanding Human Behavior SOBA and ABC Model, Values and Attitude, Behavior Characteristics, Feed back. Mechanical and Electrical Safety, work permit, SOPs etc.

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.

Application for Admission Affix a recent passport Associate Fellow of Industrial Health (AFIH) - 2019 sized 2 x 2 inches ICMR-National Institute of Occupational Health photograph with white Meghaninagar, Ahmedabad-380016. background only (Last date: 28-02-2019) 1. Name (As written in the Medical Council Registration Certificate) Gender (Male / Female) 2. 3. Date of Birth (dd/mm/yyyy) Designation 4. Employer's Full Address with pin code 5. (If employed) Pin code: Address for correspondence 6. Pin code: Contact No. / Email ID Qualification (MBBS, P.G.Degree/Diploma etc.) 7. Examination Name of the Year of passing & Date % of **MCI/State Medical Passed** Institution of completion of Internship Council Reg. No. Marks **MBBS** MS MD Others Do you belong to SC/ST/OBC/PH? 8a Yes No (If yes, please specify the category & attach attested copy of the certificate) 8b for OBC candidates whether Declaration / No Yes undertaking is enclosed 9 If employed, whether "No Objection Certificate" enclosed Yes No Total Experience after Name & Address of Period & Completion of Internship Post Held duration of Experience Employer Years Months 10 If employed, whether "Sponsorship Certificate" enclosed Yes No Experience (attach certificate(s) from the employer) Yes No

List of Enclosures (Please do not enclose original certificates)

1. Self Attested photocopies 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/OPC/PH Certificate Issued by the competent authority, if applicable. (e) Experience Certificate.

Applicant's Signature

- 2. Sponsorship Certificate / No objection Certificate in Original, if employed.
- 3. If there is a change in name, copy of Gazette and Medical Councial Registration with the changed name should be provided.

I hereby solemnly certify that the information given above is true and correct.

4. NEFT transaction receipt.

Date : Place: