



Government of Goa

**Inspectorate of Factories and Boilers**

Altinho, Panaji, Goa - 403001

Ph. No. 0832-2404851

Website: [www.ifbgoa.goa.gov.in](http://www.ifbgoa.goa.gov.in)

Ph. no. 0832-2404841

Email: [ifb.goa@mc.in](mailto:ifb.goa@mc.in)

Ref. No V/19/IFB/AFIH/2024-25/ **1267**

Dated: - 10<sup>th</sup> June 2024 (Jyaistha) 20, 1946)

**NOTICE**

**Sub: Publication of the Prospectus for Three Month Duration Training Programme in Industrial Health as Associate Fellow of Industrial Health by Inspectorate of Factories & Boilers starting from 30.09.2024 to 31.12.2024.reg**

As approved by Government of Goa, the prospectus for Three Months Duration Training Programme in Industrial Health as "Associate Fellow of Industrial Health" (as enclosed) by Inspectorate of Factories & Boilers, Altinho, Panaji, Goa starting from 30.09.2024 to 31.12.2024 is hereby published on date 12.06.2024 in accordance with the competency based course curriculum and guidelines issued by Director General of Factory Advice Services and Labour Institute (DGFASLI), Mumbai under Ministry of Labour and Employment Government of India.

**(ANANT S. PANGAM)**

Chief Inspector of Factories & Boilers



**GOVERNMENT OF GOA  
INSPECTORATE OF FACTORIES  
AND BOILERS**

# **PROSPECTUS AFIH 2024**



**Associate Fellow of Industrial Health (AFIH)**









GOVERNMENT OF GOA  
**INSPECTORATE OF FACTORIES AND BOILERS**  
**CURRICULUM & PROSPECTUS**  
**OF**  
**ASSOCIATE FELLOW OF INDUSTRIAL HEALTH (AFIH)**  
**(Three Months Duration Training Programme in Industrial Health)**

CONDUCTED AT  
**INSPECTORATE OF FACTORIES AND  
BOILERS ALTINHO, PANAJI, GOA**

FOR THE  
**ACADEMIC YEAR 2024**  
**(30/09/2024 to 31/12/2024)**

(THIS CURRICULUM IS IN ACCORDANCE WITH THE COMPETENCY BASED COURSE CURRICULUM AND GUIDELINES FOR THE TRAINING PROGRAMME PUBLISHED BY DGFASLI, AVAILABLE ON THE DGFASLI WEBSITE (<https://bit.ly/afih-2024-dgfasli>) AND APPROVED BY THE GOVERNEMENT OF GOA)

# CONTENT

|  |       |
|--|-------|
| Preface .....  | 3     |
| Programme Goals .....  | 4     |
| Specific Learning Objectives .....                                   | 5     |
| Subject Specific Competencies .....                                  | 6     |
| Time Management .....  | 7     |
| Study Scheme .....   | 8     |
| Course Contents in Details .....                                     | 9-13  |
| Project Work .....   | 14    |
| Educational/Industrial Visits &<br>Specialty Clinical Exposure ..... | 15    |
| Tutorial/Demonstration &<br>Practical Training .....                 | 16    |
| Assessment .....   | 17    |
| Training Faculties .....   | 18-22 |
| Recommended Reading .....  | 23-24 |
| Information Brochure Cum<br>Application Form .....                   | 25-33 |

# PREFACE

---

**T**he significance of the training program on industrial health for doctors lies in its capacity to enhance their expertise and knowledge, equipping them with the necessary skills to address and manage health challenges specific to industrial environments. Three Month Duration Training Programme in Industrial Health will enable Indian registered medical Doctor of Modern Medicine to become a medical officer who is considered as competent occupational health physician in different industrial establishments. Upon successful completion of the training program, participants will be granted the title of Associate Fellow in Industrial Health, accompanied by a certificate.

It is three months, fulltime, regular, offline training programme consisting of lectures series, laboratory work, practical works, demonstration & tutorial, educational / industry visit, speciality clinical exposure and project work. The practical, tutorial, demonstration activities are integral components of the day-to-day course curriculum with the involvement of multiple disciplines including Industrial Medicine, Industrial Hygiene, Safety, Staff Training and Productivity, Human Physiology, Industrial Psychology, etc. Industrial Medicine and Industrial Hygiene laboratories and practical, field visit to the industries and to their occupational health centres to understand the existing occupational health system are also the basic and essential components of the course curriculum.

## **The objectives of the course are to enable the doctors**

- To identify and manage the occupational health disorders / occupational diseases encountered in various industries in the country and to manage the industrial injuries, accidents, illnesses caused by chemical intoxication, in general and in hazardous process industry in particular.
- To suggest preventive and control measures of such occupational health problems.
- To advise, supervise and participate in the national and international programmes on occupational health of industrial workers, improving productivity and prosperity.

The course was introduced in the year 1992 at the Central Labour Institute, Mumbai.

The underlying concept of competency – i.e., the habitual and consistent use of knowledge, technical skills, clinical reasoning, communication, emotions, values and reflection in daily practice for the benefit of the individual (workers) and the community (industry) being served. Competency based course curriculum ensures that the training participants should consistently demonstrate the desired behaviour throughout their professional carrier rather than only during the final examination. The new competency-based course curriculum of the AFIH course has been designed to meet the requirements of the industries at national and international level with emphasis on sustainable development.



# PROGRAMME GOALS

---



The goals of this Certificate training programme in Industrial Health namely AFIH are:

- To train groups of medical personnel in Occupational and Environmental Health issues
- To identify/recognize Occupational and/or Environmental Health related problems, undertake investigations and formulate remedial/control measures.
- To provide regular update about recent advances in the field.
- To create skilled medical manpower in the area of Occupational Health management for betterment and upliftment of health and wellbeing of the community in general and industrial workers in particular.

# SPECIFIC LEARNING OBJECTIVES

---

The AFIH course is to produce a competent medical professional who will be able to:

- Apply the skills of a trained medical practitioner to:
  - ➔ Diagnose and manage disease and injury in relation to occupation
  - ➔ Determine the relationship between health and fitness to work
  - ➔ Advise on the effect of major contemporary health issues in workplaces
- Conduct workplace and preliminary environmental assessments in order to recognise, evaluate and control physical, chemical, biological, design-related and psychosocial hazards
- Retrieve, critically appraise and disseminate occupational and environmental health & safety information in readily understandable terms
- Apply management skills in order to:
  - ➔ Coordinate and manage occupational and environmental health and safety programs, including health surveillance
  - ➔ Effect relevant change in workplaces
  - ➔ Negotiate and resolve conflict relating to occupational and environmental health and safety issues
- Communicate effectively in order to secure the cooperation of management, employees & colleagues in the provision of a safe and healthy workplace
- Be an advocate for health in workplaces and the broader community
- Interpret the legislative, regulatory, and medico-legal aspects of occupational & environmental health and safety and be able to apply these in practice
- Design, implement and manage a vocational rehabilitation program in the workplace, provide on-hand practical training to recognise health problems related to occupation, confirm the diagnosis and suggest remedial measures, assess the factors responsible for the causation of the health problems in working & general environment conditions
- Design, conduct, implement and evaluate preventive strategies in workplaces impart training in systematic collection of information, compilation and presentation of data, storage, record keeping and retrieval of data in respect of each worker.
- Participate in continuing professional development in order to respond to changes in workplaces and keep abreast of the latest developments on occupational and environmental medicine, and health and safety issues
- Practical knowledge in computer application and drawing valid conclusions by applying appropriate statistical methodology.
- Develop basic skills in public relations, health education and public awareness programme through effective communication and information technology.



# SUBJECT SPECIFIC COMPETENCIES

---

At the end of the course, the delegates should have acquired knowledge in the following:

## **A. Cognitive Domain**

1. Basic knowledge on the structure of the different organ systems of human body, their functions and response to adverse occupational / environmental conditions.
2. Applied aspects of Occupational and Environmental Health.
3. Occupational / Environmental Health Epidemiology and biostatistics.
4. Occupational / Environmental Health disorders and diseases.
5. Biochemical, microbiological, and pathological aspects of Occupational Health
6. Toxicological aspects of Occupational / Environmental exposures.
7. Work physiology – Ergonomics, Biomechanics, and stressors.
8. Basic understanding of Industrial Management, Industrial Hygiene, and Industrial safety
9. Legislation related to Occupational health and safety.
10. Recent Advancement in the field of Occupational Health, Hygiene and Safety

## **B. Affective Domain:**

1. The AFIH delegates should be able to function as a part of a team, develop an attitude of cooperation and healthy interact with the workers, occupiers, management, law and order enforcement agencies and other colleagues to provide the best possible occupational service in the industry
2. The AFIH delegates should always adopt ethical principles and maintain proper etiquette in dealings with workers, patients, relatives, and other health personnel and to respect the rights of the workers/patient including the right to information and second opinion.
3. The AFIH delegates should develop communication skills to prepare reports and professional opinion as well as to interact with workers, patients, peers and paramedical staff, occupiers, management, law and order enforcement agencies in a professional way.

## **C. Psychomotor domain**

1. Demonstrate clinical skills of preparing case history, examination, interpretation of laboratory results, provisional diagnosis, and medical management of occupational diseases
2. Conduct pre-medical examination, periodic medical examination and exit medical examination and necessary certification
3. Conduct epidemiological studies and surveys for assessment of health & morbidity profile of the workers, determinants of diseases, assessment of health needs, diseases surveillance, and Planning and implementation of prevention and control measures
4. Do data collection, compilation, tabular and graphical presentation, analysis and interpretation, applying appropriate statistical tests, using computer-based application.

# TIME MANAGEMENT

---

- One Working Day: 09.45 AM – 05.45 PM
- Number of Sessions per Working Day: 5
- Duration of One Session: 1 Hrs and 15 Minutes (Min)/ 1 Hrs and 30 Minutes (Max)
- Lecture, Tutorial and Practical Training: 40 Working Days (200 Sessions)
- Project Work: 10 Working Days (50 Sessions). The project work is an essential component of the curriculum, the AFIH delegates should be informed and sensitized about it from the very beginning of the course.
- Educational/Industrial Visits/ Specialty Clinical Exposure: 10 Working Days (50 Sessions)
- Total Effective Course Duration: 60 Working Days (300 Sessions) [Min-375 Learning Hours]



# STUDY SCHEME

| DOMAIN  | NUMBER OF SESSIONS                        |                         |           |                   |
|---|---|-------------------------|-----------|-------------------|
|   | LECTURE/GROUP DISCUSSION/PRESENTATION (L) | TUTORIAL/ DEMONSTRATION | PRACTICAL | TOTAL (200+50+50) |
| A) Fundamentals of Industry and Industrial Managements        | 10  | -                       | -         | 10                |
| B) Occupational & Environmental Health                        | 85  | 10                      | 15        | 120               |
| C) Industrial Safety  | 15  | 5                       | -         | 20                |
| D) Industrial Hygiene   | 15  | 5                       | 10        | 30                |
| E) OSH Statutes and Standards                                 | 20  | -                       | -         | 20                |
| Lectures, Tutorial and Practical Training                     | 145                                       | 20                      | 35        | 200               |
| Project Work  | 50  |                         |           | 50                |
| Educational/ Industrial Visits & Speciality Clinical Exposure | 50  |                         |           | 50                |

# COURSE CONTENTS IN DETAILS

## A. FUNDAMENTALS OF INDUSTRY AND INDUSTRIAL MANAGEMENT:

L-10, T-0, P-0

| ALLOTTED SESSIONS : 15 SESSIONS           |                            |           |
|---|----------------------------|-----------|
| LECTURE/GROUP DISCUSSION/<br>PRESENTATION | TUTORIAL/<br>DEMONSTRATION | PRACTICAL |
| 10  | 0                          | 0         |

### 1. FUNDAMENTAL OF INDUSTRY:

L-5, T-0, P-0

What is Industry , its types and Sectors, Industries of India, Industrial Economics, Indices (GDP/GNP etc), The need for industries in country's development, The Factors of Production in industries (Labour, Land, Capital, Enterprise), What is Labour, Its types, issues, solutions, Organized and Unorganized labour issues, Migrant Workers, Seasonal Workers, Gig Workers, Industry as Organization, Its Hierarchy, the need of doctors in industry, Basic knowledge on the functioning of the different Industries, Interrelation for OSH with Industry's department of Safety, HR, Welfare, Commerce, Market, Trade Unions, Govt agencies, Community around industry, Importance of Occupational Health for Sustainable Development in Industries, Industry 1.0/2.0/3.0/4.0/5.0, Effect of technical advancement in industrial hazards.

### 2. INDUSTRIAL MANAGEMENT FOR OCCUPATIONAL SAFETY AND HEALTH:

L-5, T-0, P-0

General principles of Management, Management Theories, Components: Planning, Organizing, Staffing, Directing, Coordinating, Reporting and Budgeting, Management Structure, Roles and Responsibilities, Authority, Information flow, Reporting Mechanism, Delegation of Power, Public Relation, Concept of productivity, Concepts of Material Management, inventory control & techniques, Concept of Quality, PDCA Cycle, principles of Kaizen, Total Quality Management, Assessment of training needs, Design & development of training programmes, Training methods and strategies, Training programmes for new entrants, Evaluation of training programmes, Communication, Principles, tools and techniques of Effective Communication, IEC & BCC, Occupational Health Audit, Incentives, motivation, leadership traits, skill and types

## B. OCCUPATIONAL AND ENVIRONMENTAL HEALTH:

L-85, T-10, P-25

| ALLOTTED SESSIONS: 110 SESSIONS                |                                |           |
|--|--------------------------------|-----------|
| LECTURE (L) /GROUP DISCUSSION/<br>PRESENTATION | TUTORIAL (T)/<br>DEMONSTRATION | PRACTICAL |
| 85   | 10                             | 25        |



### **1. Concepts of Health & Diseases and History of Occupational Health:**

**L-10, T-0, P-0**

Definitions, Determinants of Health, Concepts of Health and Diseases, Basic socio-economic and demographic factors pertinent to occupational health, Occupational Sociology, History and development of Occupational Health, International and National Organisations of OSH (MoL&E, DGFASLI, AIIH&PH, ILO, WHO, CDC, ICMR-NIOH, ICOH, NIOSH etc), ILO Conventions, Recommendations, Ratifications, Status of occupational health globally and in India, Sustainable Development Goals, Epidemiology, Epidemiological triad, Theory of Disease Causation, Multifactorial Causation of Occupational Diseases, Association and Causal Relationship, Level of Prevention and Mode of Interventions, Role of Nutrition in Occupational Health. Etc

### **2. Healthcare Delivery System for Community and Industry:**

**L-10, T-0, P-0**

Principle and Elements of Primary Health Care, Primary Health Care Approach in Occupational Health (Basic Occupational Health Service), Health Service in India, Role of Governments, Employers, Trade Unions and Employees in OHS, Reportable Diseases and Notifiable Diseases, Functioning of Occupational Health Centre, First Aid Services in Industries, Ambulance service, Medical emergency response & planning, Role and Responsibilities during in Onsite & Offsite Emergencies, Triage and Reverse Triage, Health Programmes for Prevention of Communicable and Non-Communicable diseases, Hearing Conservation Programme, Prevention of Addiction, Rehabilitation, etc

### **3. Research Methodology and Biostatistics in Occupational Health:**

**L-10, T-3, P-0**

Methods of occupational health studies-descriptive studies, analytical studies, case control and cohort studies, experimental studies, Preparation of questionnaire, Measurements of Mortality and Morbidity: Incidence, prevalence, mortality rate, morbidity rate, man-days lost, absenteeism rate, sampling, sample size, sampling methods, standardization, concept of normal distribution, descriptive statics, inferential statistics, mean, median, mode, standard deviation, inter quartile range, concept of p value, significance testing, Chi<sup>2</sup> testing, t- tests, correlation, Application of computers and statistical software of occupational health data analysis, representation of the research results in tables and diagrams, preparation of reports, Reference management, Plagiarism, Research Publication, Important Database and Repository for Occupational health Practice

### **4. Screening and Diagnosis for Occupational Health:**

**L-10, T-2, P-0**

Concept of Screening Tests and Diagnostics Tests, Sensitivity, Specificity, Accuracy, Precision, Positive Predictive Value, Negative Predictive Value, Biomonitoring and exposure assessment for occupational diseases, Occupational Toxicology, Occupational Health Surveillance, Different Diagnostics Modalities in Occupational Health, Imaging Modalities for Occupational Health, Evidence Based Decision Making for Occupational Health Practice, Pre-Employment Medical Examination, Periodic Medical Examination, Pre-Retirement/Exit Medical Examination, Special Medical Examination, Maintenance of health registers and records, Medical Certification to employees ( employment, sickness, injuries, return to work) etc

### **5. Management of Occupational Disorders, Injuries, and Illness:**

**L-25, T-5, P-20**

List of Occupational Diseases as per ILO, List of Notifiable Diseases in Factory, Ports, and Mines, Medical Management of Diseases Caused by Chemical Agents: Toxic Gases, Vapours, Toxic Liquids, Metals, Solvents, Organochlorine and organophosphorus compounds, Hydrocarbons, Acids, Alkalis etc , Medical Management of Diseases Caused by Physical factors or Agents: Heat, Noise, Vibration, Humidity, compressed or decompressed Air, Electricity, Radiation, Electromagnetic Waves, Work at Height, Work at High Altitude, Work under Water, Medical Management of Diseases Caused by Biological Agents: Anthrax, Brucellosis, Leptospirosis, Tetanus, Tuberculosis, Hepatitis, HIV, Fungal Infections, Occupational diseases by target organ systems: Occupational Lung Diseases, Occupational Skin Disorder, Occupational Musculo-Skeletal Disorders, Occupational Cancers, Occupational Eye Disorders, behavioural toxicology, Occupational Injuries and Illness Classification, Management of Occupational Injuries and Emergencies, BLS, ACLS, Management of Insect, Animal and Snake Bite, Disability Assessment, etc

### **6. Environmental Health:**

**L-5, T-0, P-2**

Introduction and definitions in Environmental Health, Air Pollution and Workers Health, Air Quality Index, Water Pollution, Environmental Sanitation, Food Safety, Pests and Pesticides, General sanitation, purification of water, water quality assessment, Criteria of Potable Wholesome Drinking water, drinking water supply, Solid waste management, Bio-Medical Waste Management, Environmental Management System, etc

### **7. Work Physiology, Ergonomics, and Industrial Psychology:**

**L-7, T-0, P-3**

Work Physiology, Physical fitness, Heat Stress, Fundamentals of Biomechanics, Introduction to ergonomics, cumulative trauma disorders, stress performance, application of ergonomics in occupational health, anthropometry, principles of work station designing, Introduction to industrial psychology, occupational stress & its management, shift work, Occupational Mental and Neuro-behavioural disorders, occupational health disorders of psychological origin, etc

### **8. Important National Health Programmes and Recent Advancement in Occupational Health:**

**L-8, T-0, P-0**

Brief Introduction to National Health Mission (NHM), Ayushman Bharat Pradhan Mantri Jan Arogya Yojana (AB PM-JAY), and Important National Programme for TB, HIV, Vector Borne Diseases, Integrated Disease Surveillance Programme (IDSP), National Programme for prevention & Control of Cancer, Diabetes, Cardiovascular Diseases & stroke (NPCDCS), National Mental Health Programme, Recent Diagnostics in Occupational health, Adult Immunization, One Health Approach, Immunologic and genetic biomarkers in occupational health practice, Application of Artificial Intelligence in Occupational Health Practice, Aging and Work, Women at Work, Nanotechnology and Occupational Health, Industrial Automation and Occupational Health, Occupational Health Information Management System, Ethics in Occupational Health, Green House Gases, Carbon footprint, Climate Changes, etc



**C. INDUSTRIAL SAFETY:**

**L-15, T-5, P-0**

| <b>ALLOTTED SESSIONS: 20 SESSIONS</b>                  |  |                      |
|--|--|----------------------|
| <b>LECTURE (L) /GROUP DISCUSSION/<br/>PRESENTATION</b> | <b>TUTORIAL (T)/<br/>DEMONSTRATION</b> | <b>PRACTICAL (P)</b> |
| <b>15</b>  | <b>5</b>                               | <b>0</b>             |

Definition, Importance, Applicability, Accident causation, Accident and Injury Prevention, safety committee, Control of industrial heat, ventilation, noise, vibration, illumination & color, Radiation Safety, Fire Safety, Electrical Safety, Work Permit System, Safety during Work at Height and Confined Space, Accident investigation & Reporting, Fundamentals of Safety Audit, Introduction to Behavioral Based Safety (BBS), Hazard Identification, Risk Assessment & Mitigation (HIRAM), Case studies of following major accidents - Bhopal, Mexico, Flixborough, Seveso, Chernobyl and Feyzin disasters, etc.

**D. INDUSTRIAL HYGIENE:**

**L-15, T-5, P-10**

| <b>ALLOTTED SESSIONS: 30 SESSIONS</b>                  |  |                      |
|--|--|----------------------|
| <b>LECTURE (L) /GROUP DISCUSSION/<br/>PRESENTATION</b> | <b>TUTORIAL (T)/<br/>DEMONSTRATION</b> | <b>PRACTICAL (P)</b> |
| <b>15</b>  | <b>5</b>                               | <b>10</b>            |

Introduction to Industrial hygiene, organizing Industrial hygiene service, Hierarchy of Control, Concepts of safe working limits (TLV –TWA, STEL, PEL, REL, BEI, IDLH, LC 50, LD50, etc), MSDS, Workplace Airborne contaminants and monitoring, Assessment and monitoring of Industrial ventilation, heat & heat stress indices, humidity, noise, illumination & color, vibration, radiation, Respiratory and Non-Respiratory Personal Protective Equipment-Types, Standards and Selection

**E. OCCUPATIONAL SAFETY & HEALTH STATUTES & STANDARDS:**

**L-20, T-0, P-0**

| <b>ALLOTTED SESSIONS: 20 SESSIONS</b>                  |  |                      |
|--|--|----------------------|
| <b>LECTURE (L) /GROUP DISCUSSION/<br/>PRESENTATION</b> | <b>TUTORIAL (T)/<br/>DEMONSTRATION</b> | <b>PRACTICAL (P)</b> |
| <b>15</b>  | <b>5</b>                               | <b>10</b>            |

National Policy on OSH, Factories Act 1948 and The Factories Rules, The Dock Workers (Safety, Health & Welfare) Act and Regulations, Building and other construction work Act & Rules, Environmental Protection Act 1986-MSIHC Rules, CIMAH Rules, ESI Act, The Mines Act,

## COURSE CONTENTS IN DETAILS

---

Employees Compensation Act, Maternity Benefit Act, Insecticides Act, The Child and Adolescent Labour (Prohibition & Regulation) Act and Introduction to New Labour Codes, Introduction to National and International Standards, BIS, OISD, ISO, OSHA, NIOSH



# PROJECT WORK

---

Project work is the essential component of the training programme. The Project work shall be original work in the field of occupational health domain involving workers as study participants in registered Factory, Mines, Dock Works, Construction Work and Plantation Work. Project work may include secondary data analysis of occupational health domain in the above-mentioned establishments. Narrative reviews, Systematic reviews, and case reports, etc. will not be considered as Project Work. The Project work should commence from the first working day of the third month of the programme in all the institutions all over India and duration shall be 10 working days. The project work shall be duly approved by the medical faculty of the respective institute. There shall not be any violation of ethical principles of biomedical and health research, and it is to be ensured by the respective institution. The final project work report should be with in 5000 words and printed hardbound copy with black cover and golden embossing. The project report shall be duly checked, approved, and duly signed by the medical faculty of the respective institute. At least two copies of the project report should be prepared out of which one shall be submitted to the Institute during final examination.

## **The Project Work should consist of following sections:**

### **I. Title:**

Times New Roman, 14 font size, Bold, Line Spacing 1.5, Justify

### **II. Structured Abstract (Max 300 Words):**

Introduction, Methodology, Result and Discussion. Times New Roman, 12 font size, Line Spacing 1.5, Justify

### **III. Keywords (Max 5 Keywords in MeSH Terminology):**

Times New Roman, 12 font size, Italic

### **IV. Introduction:**

Times New Roman, 12 font size, Line Spacing 1.5, Justify, Single Column, A-4, Equations, Tables and Figures (colored) shall be numbered chronologically, starting from Introduction to Conclusion. In text citation as numbers in chronologically in square brackets [ ] as cross linked to corresponding reference

### **V. Review of Literature:**

Times New Roman, 12 font size, Line Spacing 1.5, Justify, Single Column, A-4

### **VI. Materials and Methods**

Times New Roman, 12 font size, Line Spacing 1.5, Justify, Single Column, A-4

### **VII. Results and Analysis**

Times New Roman, 12 font size, Line Spacing 1.5, Justify, Single Column, A-4

### **VIII. Discussion**

Times New Roman, 12 font size, Line Spacing 1.5, Justify, Single Column, A-4

### **IX. Conclusion**

Times New Roman, 12 font size, Line Spacing 1.5, Justify, Single Column, A-4

### **X. References:**

In Vancouver format with in text citation as square brackets [ ]

Plagiarism Prevention: The project report prior to submission should be checked by the candidate for plagiarism. The similarity content should not exceed 10% & not more than 2% from any single source. In this regard, a self-declaration by the candidate shall be included in the report.

# EDUCATIONAL/INDUSTRIAL VISITS & SPECIALTY CLINICAL EXPOSURE

---

## I. Educational/Industrial Visits: 30 Sessions

At least 9 field visits must be conducted in registered factories specially in the industries involving hazardous process as mentioned in the First Schedule of the Factories Act 1948, Construction sites, dock works (if nearby), mines (if nearby), Plantation work (if nearby) to study occupational health hazards, control measures and the functioning of occupational health services there. One educational visit may be conducted in any specialized or advanced center for management of occupational health problems or dealing with occupational rehabilitation services or occupational toxicity or occupational research organization.

1. P&G, Kundaim, Goa.
2. Paradeep Phosphates Limited, Zuarinagar, Goa.
3. Goa Glass Fiber Ltd., Bardez, Goa.
4. Vedanta Limited, Amona, Goa.
5. MRF Limited, Usgao, Goa.
6. Berger Paints India Limited, Kundaim, Goa.
7. Hindustan Coco-Cola Beverages Pvt. Ltd., Verna, Goa.
8. Cipla Limited, Verna, Goa.
9. Goa Shipyard Limited, Vasco, Goa.
10. Himgiri Castings Pvt. Ltd., Kundaim, Goa.
11. Tata Consultancy Services Ltd., Karaswada, Goa.

## II. Specialty Clinical Exposure: 20 Sessions

Specialty Clinical exposure in nearby ESI Hospitals/Any Tertiary Care Hospital/Medical Collage in the department of Respiratory Medicine/ENT/Eye/Dermatology/Orthopedics/Physical Medicine and Rehabilitation (PMR)/Community Medicine/Psychiatry or discussion of different topics by the specialists from the above departments to get exposure in recent advancement in the respective discipline with respect to occupational health issues.

**N.B: A notebook is to be prepared by every AFIH delegate, containing brief description of educational/industrial visits and specialty clinical exposure and the same is to be submitted at the institute during examination.**



# TUTORIAL/DEMONSTRATION & PRACTICAL TRAINING

---

At the end of the training programme, participants should acquire the following practical skills:

## **OCCUPATIONAL AND ENVIRONMENTAL HEALTH: 35 Sessions**

- a. Medical examination - proficiency in collection of proper occupational exposure history, general examination, recognition and demonstration of physical finding, pre-employment/pre-placement, periodic, exit medical examination and special examination.
- b. ILO International Classification of Radiographs of Pneumoconioses, CT scan for Occupational Lung Diseases
- c. Lung function tests
- d. Audiometry
- e. Vision testing
- f. E.C.G.
- g. Bio-chemical & pathological investigations, routine & special
- h. Research Methodology, Biostatistics, & Data Analytics
- i. First Aids, BLS & ACLS, Use of AED
- j. Evaluation of physiological work stress
- k. Exercise stress test
- l. Test for Vertigo
- m. Techniques for different anthropometric measurements, biomechanics

## **INDUSTRIAL SAFETY: 5 Sessions**

- Practical/Video Demonstration of Machine Safety
- Practical/Video Demonstration of Fire Fighting Equipment
- Practical/Video Demonstration of Work at Height Safety Equipment
- Case discussion Bhopal, Mexico, Flixborough, Seveso, Chernobyl and Feyzin disasters

## **INDUSTRIAL HYGIENE: 15 Sessions**

- Assessment of workplace airborne contaminants, Sampling, analytical techniques, and their interpretation.
- Monitoring of workplace ventilation, heat, humidity, noise, illumination & color, vibration, radiation
- Respiratory and Non-Respiratory Personal Protective Equipment

**N.B: A notebook is to be prepared by every AFIH delegate containing brief description of the practical works and the same is to be submitted at the institute during examination.**

# ASSESSMENT

SUMMATIVE ASSESSMENT, i.e. at the end of the AFIH training

The summative examination would be carried out as per below mentioned schema.

## 1. Theory Examination:

The examination shall be in MCQ Type: 100 marks\*.

Every correct answer will be of 1 mark and there will be no negative marking for wrong answer.

| Sr.No. | Marks Distribution (Suggestive) in the Final Theory Examination |       |
|--------|---|-------|
|        | Domain  | Marks |
| 1.     | Fundamentals of Industry and Industrial Management              | 05    |
| 2.     | Occupational & Environmental Health                             | 50    |
| 3.     | Industrial Safety   | 10    |
| 4.     | Industrial Hygiene  | 15    |
| 5.     | OSH Statues & Standards   | 20    |
|        | Total   | 100   |

\*Candidates securing 50 marks shall be declared to have passed in this section (Theory).

## 2. Practical/Oral/Clinical/Project Work examination: 100 marks\*\*

### a. SECTION: I (50 Marks)

Practical/Demonstration: 40 marks

Evaluation of Practical Notebook and Visit Workbook: 10 marks.

### b. SECTION: II (50 Marks)

Oral/Clinical Examination: 40 marks

Evaluation of Project Work: 10 marks

\*\*Candidates securing minimum of 50 marks [25 marks in Section: I and 25 marks in Section: II separately] shall be declared to have passed in this section (Clinical/Practical and oral examination)

**N.B.: To qualify for the award of certificate, a candidate must pass in both the sections as mentioned in 1 (Theory Examination) and 2 (Practical/Oral/Clinical/Project Work examination) separately.**

**N.B.: Preparation of the MCQ type question papers and evaluation of the answer sheet and appointment of at two external examiners of medical discipline (One for Section-i and another for Section-ii) for Practical/Oral/Clinical/Project Work examination and publication of the result will be done by the respective institute.**

**N.B.: If a candidate fails in one session or not being able to appear in the same session due to unavoidable circumstances, he/she may be allowed to re-appear in the examination conducted next session. If he/she fails in that examination too, he/she will not be allowed to appear the examination in subsequent session. However, such candidate may re-apply for the course, he/she has to undergo the complete procedure of the admission to the course and shall be eligible to appear for the examination only after undergoing the complete course again with 75% attendance.**



# TRAINING FACULTIES

---



## DR. BASAVARAJ C. PATTANSHETTI

**Qualification:** M.B.B.S., Dp. Paed. (SASMS). , A.F.I.H.

**Experience:** More then Three decades in the field of health management.  
(15 years in occupational health)

- Worked as Occupational Health Physician (AGM Medical Service) at Sesa Sterlite - 10 years.
- Worked as Medical Officer at Chowgule Mines - 1 year
- Worked as RMO(Medicine and Allied) in Jaslok Hospital Mumbai - 5 years.
- Worked in Pediatric Nursing Home Belgaum District - 5 years.
- Worked as Govt. Medical Officer in Health dept. at Belgaum District – 10 years.
- Worked as Occupational Health Physician at Encube Ethicals,Goa – 1 year.
- Worked as Occupational Health Physician at Nestle, Goa – 2 years
- Worked as Occupational Health Physician at Cipla, Goa – 1 year.



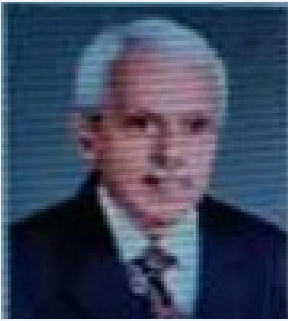
### DR. AJIT VAIDYA

**Qualifications:** M.B.B.S., PGDMCH, AFIH,

**Experience:** Over 22 years in the field of Medicine

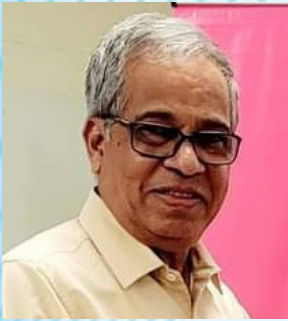
Dr Ajit Vaidya has a rich experience of over 22 years in the field of Medicine of which initially in the Hospital set ups like VM Salgaokar Medical centre & Goa Medical College in the Departments of Medicine & Neurology and later in the field of Occupational Health in Paradeep Phosphates Limited (formerly known as Zuari Agro Chemicals Ltd) over 17 years. Having acquired Bachelor's degree in Medicine in 2002, he completed PGDMCH from GMC in the year 2006 and AFIH from LMRC Pune (affiliated to DGFASLI) in 2007. He is continuously trained in BLS & ACLS from AHA for last 8 years. Dr Ajit Vaidya is instrumental in complete overhaul of OHC set up in the current organization as per the guidelines of NDMA featuring easy movement of casualties, mass casualty handling etc. and introduced various initiatives like Online ECG, chemical burn prevention measure, AED, training all workers in CPR & AED use etc. He is among very few Occupational Health Physicians who participated both as respondent and Observer in NDMA mock exercises conducted across the state of Goa from the year 2008. He also drove the implementation of ISO 45001:2018 & ISO 14001:2021 for OHC in the current organization with preparation of slew of documents like HIRA, AIA, SOP'S for OHC activities & training health workers.





### DR. VALLABH B. DHAIMODKER

- Designation** : Proprietor, Dr. Dhaimodker's Occupational Health & Reserch Centre
- Head & Training Officer** : Dr. Dhaimodker - GGVTC First Aid Training Academy
- Present Affiliation** : Managing Trustee & Ex-Secretary, DILASA Palliative Care Centre, IMA Ponda Charitable Trust, Farmagudi, Ponda- Goa.
- Year of Experience** : Six years in Palliative Care.  
Fifteen Years in Anaesthesiology  
Thirty Years in Occupational Health & Industrial Medicine.
- Areas of interest** : Promote Palliative Care and initiate Training courses in Palliative Care & Pain Management. Integrate First Aid, Emergency Medicine & Disaster Management
- Major Achivements** : Started Dilasa, the first integrated Palliative Care Centre in Goa.
- Research Publications** : Occupational Health & Disaster Management.



### SHRI. SUHAS KRISHNA NAIK

**Designation :** Chief OSH Consultant

#### EDUCATIONAL QUALIFICATIONS

- Passed out Bachelor of Science with Chemistry as Principal Subject and Physics as Subsidiary from Bombay University in 1974.
- Passed out the Diploma in Industrial Safety through Maharashtra Board of Technical Examination in 1987.
- Lead auditor for ISO 45001:2018.

#### INDUSTRIAL EXPERIENCE

- Started the Industrial career from CIBA-GEIGY (I) LTD., as a trainee operator in March 1975.
- Worked for Zuari Agro Chemicals Ltd and retired as Chief Manager-Fire & Safety. Has over 39 years of working experience in Fertilizer Industry in different roles.
- Presently, Chief OSH Consultant for M/s SN Safety Consultants, recognized OSH auditors, Govt. of Goa. Provides consultancy services for Occupational Health & Safety Audits, On-site Emergency Plans, Hazard Identification and Risk Assessment studies
- Visiting faculty for Inspectorate of Factories & Boilers, Government of Goa from 2001.
- Expert Panel Member on National Safety Council, under Ministry of Labour, Govt. of India and involved in National Level Training programs & OSH audits
- Member (Expert Industrial Safety) of South Goa District Crisis Group which is an Apex Body to deal with major chemical accidents in South Goa District.

#### PRESENTATION OF PAPERS

- Presented Technical paper on “Safety of Isolated Storages- A Success story” at National Seminar organized by FICCI.
- Presented paper on “Best Safety Practices in Safety, Health and Environment at ZACL” in the National Conference organized by DGFASLI, Ministry of Labour in association with ILO at Mumbai.
- Speaker at Government of Karnataka International Conference on Vision Zero with subject “Occupational Safety and Health in a Globalized World: A Nuanced Approach towards Zero Accident Workplaces”

#### TRAINING PROGRAMS

- Has conducted over 1000+ training sessions on Industrial Safety.
- “Safe Transportation of Hazardous Chemicals by Road’ under Motor Vehicle Act.
- 1-month course for “Supervisors working in hazardous processes/operations’ under Section 41-C of Factories Act, 1948.
- 3-months Certificate course on “Associate Fellow of Industrial Health” by Ministry of Labour, Govt. of India for Factory Medical Officers
- 2-days Program in Safety & Health conducted by Inspectorate of Factories & Boilers
- 3 years BBA course in Shipping and Logistics at MES College of Arts & Science, -Goa.
- Resource Person for Don Bosco College of Engineering for seminars/workshops.





### **DR. NARESH SURESH FADTE**

Medical Inspector Of Factories & Certifying Surgeon,  
Inspectorate of Factories & Boilers, Altinho, Panaji Goa 403001

#### **Academic Qualification:**

2018 : Associate Fellow Of Industrial Health, Directorate General Factory Advice Service and Labour Institutes, Ministry of Labour & Employment, Govt. Of India.

2011 : M.B.B.S. at Goa Medical College, Bambolim Goa (Goa University).

#### **Experience :**

Over a decade of experience in the for field of health management.

1. Medical Inspector Of Factories & Certifying Surgeon at Inspectorate of Factories & Boilers, Institute of Safety, Occupational Health & Environment, Altinho, Panaji Goa (October 2021- Till date) :- 2 yrs
2. AFIH (Associate Fellow Of Industrial Health, Directorate General Factory Advice Service and Labour Institutes, Ministry of Labour & Employment, Govt. Of India.) Course coordinator at Inspectorate of Factories & Boilers, Altinho Panaji Goa for years 2021-2022 & 2023
3. Insurance Medical Officer, ESI, Patto Panaji Goa. Labour Department, Govt. of Goa. (July 2015 to October 2021) :- 5 years 3 months.
4. Assistant Lecturer, Department of Anaesthesiology, Goa Medical College, Bambolim Goa. (July 2012 to July 2015) :- 3 years.
5. Medical Officer, Directorate of Health services Campal, Panaji Goa. (January 2012 to July 2012) :- 7 months.
6. Assistant Manager (Medical) at Chowgule Company Private Ltd. Costi Mine, Costi, Sangem Goa (March 2011 to December 2011) :- 9 months.

#### **Covid Related work:-**

1. Management of Interstate traveller during first wave of covid wave at Old Goa Residency, Oldgoa, Panaji.
2. Worked at Covid quarantine Centre – Shyamprakash Mukharjee Stadium, Near Goa University during first wave.
3. Covid related work at PHC Corlim, Goa during first and second wave.

# RECOMMENDED READING

---

## Books (latest edition)

1. Parkes WR - Occupational lung disorders, Butterworths, London.
2. International Labour Organisation – Encyclopaedia of Occupational Safety and Health, Geneva.
3. National Institute of Occupational Safety and Health – Occupational respiratory diseases, US Dept. of Health and Human Service, Washington D C (Revised), USA.
4. World Health Organisation - Harmful exposure to mineral dusts, World Health Forum, 15(2).
5. Gardner AW - Current approaches to Occupational Health 2, John Wright & Sons Ltd, Bristol, London, Boston.
6. International Labour Organisation - Guidelines for the use of ILO International classification of Radiographs of Pneumoconiosis, Geneva.
7. Hunter's Diseases of Occupations, Hodder and Stoughton, London/Toronto.
8. Occupational Health - Harrington and Gill, Blackwell Scientific Publication, Oxford.
9. Epidemiology of Occupational Health – WHO, European Series No 20.
10. Monitoring for Health Hazards at Work - Gill and Ashton, Grant McIntyre, London.
11. Recent Advances in Occupational Health - MacDonald, Churchill Livingstone, London.
12. Occupational Diseases: A Guide to Their Recognition - National Institute of Occupational Safety and Health, NIOSH, Cincinnati.
13. Occupational Health Practice - Schilling, Butterworths, London.
14. Current Approaches to Occupational Medicine - Ward Gardner, J. Wright, Bristol.
15. Occupational Medicine - Zenz, Yearbook Publication, Chicago.
16. Epidemiology in Medical Practice - Barker and Rose, Churchill Livingstone, Edinburgh.
17. Occupational Epidemiology - Monson, CRC Press, Boca Raton.
18. Early Detection of Occupational Diseases -WHO, Geneva.
19. Epidemiology: Principle and Methods – Mac Mohan and Pugh, Little Brown, Boston.
20. Park's Textbook of Preventive and Social Medicine- Banarsidas Bhanot Publishers
21. Oxford Handbook of Occupational Health, OUP-UK
22. Harrison's Principles of Internal Medicine, Mc Graw Hill
23. Industrial Safety Handbook-Handley- Mc Graw Hill
24. Industrial Hygiene Simplified, Spellman, Bernan Press
25. Patty's Industrial Hygiene, Wiley
26. Occupational and Environmental Medicine by Joseph Ladou
27. Any other books as suggested by the faculties

### **Journals and Important Organizations & Repositories:**

1. Safety and Health at Work, <https://www.sciencedirect.com/journal/safety-and-health-at-work>
2. Journal of Occupational Health, <https://onlinelibrary.wiley.com/journal/13489585>
3. Occupational and Environmental Medicine, <https://oem.bmj.com/>
4. Occupational Medicine, <https://academic.oup.com/occmed>
5. Indian Journal of Occupational and Environmental Medicine, <https://www.ijoem.com/>
6. International Journal of Occupational Medicine and Environmental Health, <https://link.springer.com/journal/13382/volumes-and-issues>
7. PubMed, <https://pubmed.ncbi.nlm.nih.gov/>
8. International Labour Organization, <https://www.ilo.org>
9. International Training Centre-ILO, <https://www.itcilo.org/>
10. World Health Organization, <https://www.who.int/>
11. Occupational Safety and Health Administration, USA, <https://www.osha.gov/>
12. European Agency for Safety and Health at Work, <https://osha.europa.eu/en>
13. Agency for Toxic Substances and Disease Registry (ATSDR), <https://www.atsdr.cdc.gov/>
14. Centre for Disease Control, USA, <https://www.cdc.gov/>
15. International Agency for Research on Cancer, <https://www.iarc.who.int/>
16. International Commission on Occupational Health, <https://www.icohweb.org/>
17. National Health Mission, <https://nhm.gov.in/>
18. National Digital Library of India, <https://ndl.iitkgp.ac.in/>
19. CSIR-Indian Institute of Toxicology Research, <http://iitrindia.org>
20. Central Pollution Control Board, <https://cpcb.nic.in/>
21. All India Institute of Hygiene and Public Health, MOHFW, GOI, <http://aiihph.gov.in/>
22. ICMR-National Institute of Occupational Health, <https://www.nioh.org/>
23. Online Learning Platform by Government of India, <https://swayam.gov.in/>
24. Directorate General Factory Advice Service and Labour Institutes, <https://dgfasli.gov.in>
25. Ministry of Labour and Employment, GOI, <https://labour.gov.in/>
26. Any other journals or websites as suggested by the faculties.



**GOVERNMENT OF GOA**  
**INSPECTORATE OF FACTORIES AND BOILERS,**  
**ALTINHO, PANAJI, GOA – 403001**

Website: www.ifbgoa.goa.gov.in, E-mail: mif-ifb.goa@nic.in

Telephone: 08322404841

INFORMATION BROCHURE CUM APPLICATION FORM FOR THREE MONTHS TRAINING PROGRAMME IN INDUSTRIAL HEALTH LEADING TO CERTIFICATE OF “ASSOCIATE FELLOW OF INDUSTRIAL HEALTH”

**DURATION: 30/09/2024 to 31/12/2024**

DATE OF PUBLICATION OF THE INFORMATION BROCHURE  
CUM APPLICATION FORM: 12/06/2024

LAST DATE FOR RECEIPT OF THE APPLICATION FORM BY SPEED POST OR BY HAND DELIVERY TO THE INSPECTORATE OF FACTORIES & BOILERS ALTINHO, PANAJI, GOA:  
26/07/2024

-----

Applications are invited in the format attached herewith for the Three Month Duration Training Programme in Industrial Health. Upon successful completion of the training program, participants will be granted the title of “Associate Fellow in Industrial Health”, accompanied by a certificate, from Inspectorate of Factories and Boilers, Althino, Panaji, Government of Goa. Which will fulfil the requirement in terms of qualification for Factory Medical Officers as required under The Factories Act, 1948 and the rules made there under.

The classes for the AFIH Course shall be conducted in off-line mode only, the course being a statutory requirement under The Factories Act, 1948 and the rules made there under

### **DURATION OF THE TRAINING PROGRAMME**

- The programme will be conducted from 30/09/2024 to 31/12/2024

### **NOMENCLATURE OF THE TRAINING PROGRAMME:**

- Three Months Duration Training Programme in Industrial Health. Upon successful completion of the training program, participants will be granted the title of “Associate Fellow in Industrial Health”, accompanied by a certificate.

### **ESSENTIAL ELIGIBILITY CRITERIA FOR ADMISSION:**

1. Candidates in possession of recognised medical qualification as per the provisions of the National Medical Commission (NMC) Act, 2019 and the repealed Indian Medical Council (MCI) Act 1956, and
2. Have completed one year of internship period.
3. Possessing permanent registration certificate issued by the NMC/ the erstwhile Medical Council of India or State Medical Council to practice medicine in India and
4. Minimum Two years working experience (as on the date of publication of the information brochure cum application form) in any establishment or self-practice after completion of the compulsory internship period. The period spent on higher studies in the field of modern medicine i.e. recognised post graduate medical degree/diploma (MD/MS/DNB/Diploma) or an equivalent recognised medical qualification as per provisions of the NMC Act 2019 and the repealed Indian Medical Council Act 1956 shall be considered as working experience.
5. **Age shall be less than 45 years as on the date of release of prospectus.**

## **SELECTION CRITERIA FOR ADMISSION:**

Maximum intake capacity for this training programme at Inspectorate of Factories & Boilers, Altinho, Panaji, Goa is 25.

If the number of applicants who have fulfilled the essential eligibility criteria for admission as mentioned in the prospectus, are more than 25, then only the selection criteria (Objective Criteria based Merit List) as mentioned below shall be followed,

After completion of the compulsory internship period,

1. Two (2) mark will be given for each completed year of working experience in Factory, Mines, Dock Works, Construction Work, and Plantation Work and
2. One (1) mark will be given for each completed year of working experience other than Factory, Mines, Dock Works, Construction Work and Plantation Work or self-practice or period spent on higher studies in the field of modern medicine i.e. recognised post graduate medical degree/diploma (MD/MS/DNB/Diploma) or an equivalent recognised medical qualification as per provisions of the NMC Act 2019 and the repealed Indian Medical Council Act 1956
3. TIE PRINCIPLES – Wherever two or more candidates have secured equal aggregate marks, these tie(s) is/are resolved in accordance with the principles as mentioned below,
  - Priority-1: Age-Senior will be in the upper order of merit.
  - Then Priority-2: Date/Year of Completion of the Internship-Earlier the date/year of completion of internship will be in the upper order of merit.
4. Incomplete application form (along with the documents to be submitted as mentioned in the prospectus) shall be rejected and no communications shall be made with the individual candidates from the institute.

## **VENUE OF THE TRAINING PROGRAMME:**

- Inspectorate of Factories & Boilers, Altinho, Panaji, Goa – 403001.

## **APPLICATION PROCEDURE:**

- Intended candidates can express their interest by sending the duly filled application form (Page No.29 to 33 ) in prescribed proforma along with self-attested copies of necessary attachments with DD (Demand Draft) of Rs 2000/- (Two Thousand only) in favour of “Chief Inspector of Factories & Boilers Goa” through speed post or by hand delivery only to “Chief Inspector of Factories & Boilers at Inspectorate of Factories & Boilers, Altinho, Panaji, Goa – 403001.
- On the outer envelope, it shall be clearly written as: “APPLICATION FOR THREE MONTHS TRAINING PROGRAMME IN INDUSTRIAL HEALTH AT INSPECTORATE OF FACTORIES & BOILERS, GOA”.
- Last Date for receipt of the Application form by speed post or by hand delivery to the Inspectorate of Factories & Boilers, Altinho Panaji, Goa: 26/07/2024 by 5 pm.
- Application forms sent by any other means other than mentioned above (like email, register AD, etc) shall not be considered/accepted.
- Mere application for the training programme does not confirm the allotment of the seat.
- List of the provisionally eligible candidates will be notified/published on department website or department notice board on or before: 19/08/2024
- List of Non-Eligible Candidates with reason will also be notified/published on department website or department notice board on or before: 19/08/2024.



- Objective Criteria based Merit List (Rank) of the provisionally eligible candidates will be notified/published on department website or department notice board on or before: 26/08/2024.
- Physical Verification of the original documents followed by admission and fees deposition for the first 25 candidates (Rank:1 to 25) as per merit list will be conducted: 02/09/2024 from 10 a.m. onwards.
- If a candidate up to Rank-25, does not take the admission and does not deposit the fees by 04/09/2024 till 4 PM, his/her candidature will automatically be cancelled, and no request will be entertained and no correspondence will be made, in this regard in any circumstances. During admission, the physical appearance of the candidate with all original documents is essential and no authorization to any other person will be entertained in this regard in any circumstances.
- Publication of the Number of Vacant Seats on department website or department notice board: 06/09/2024 (If No Vacant Seat is available: NIL Report will be notified/published.)
- Reporting & Open Round Counselling for the Vacant Seats:
  - ➔ Reporting: If any candidate of Rank-26 to Rest, wants to take admission against the vacant seat, he/she has to appear physically only on 26/09/2024, 10 AM to 4 PM at Inspectorate of Factories & Boilers, Altinho, Panaji, Goa – 403001 and submit a physical application for his/her willingness to attend the open round counselling for the vacant seats to “The Chief Inspector, at Inspectorate of Factories & Boilers, Altinho, Panaji, Goa – 403001. Candidature for the rest of the candidates will automatically be cancelled, and no request will be entertained, and no correspondence will be made, in this regard in any circumstances.
  - ➔ Filling of the vacant seats will be made on 27/09/2024, 10 AM onwards, strictly as per the order of merit, only from the candidates reported and applied on 26/09/2024 to attend the open round counselling for the vacant seats. The physical appearance of the candidate himself/herself with all original documents is essential during the allotment of seats on 27/09/2024 and no authorization to any other person will be entertained in this regard in any circumstances.
  - ➔ Mere reporting and presence on the open round counselling do not confirm the allotment of seats.
- No TA/DA/etc will be provided to attend the document verification/admission/ Reporting/Open Round Counselling or for any other purpose. •
- The Information related to admission/selection or any other matter for this training programme will be notified/updated on the Notice Board of Inspectorate of Factories & Boilers, Altinho, Panaji, Goa – 403001 or department website ([www.ifbgoa.goa.gov.in](http://www.ifbgoa.goa.gov.in)) from time to time.
- No personal communication will be made to individual candidates. •
- Commencement of the Training programme: 30/09/2024, 09.45 AM.
- Detailed training programme schedule will be intimated/notified in due course of action.
- Exam Dates:-
  - ➔ Theory Exam: 06/01/2025 at 10 AM at Inspectorate of Factories & Boilers, Altinho, Panaji, Goa.
  - ➔ Practical Exam: 10/01/2025 at 10 AM at Inspectorate of Factories & Boilers, Altinho, Panaji, Goa.

### **STIPEND/INCENTIVE/BOND POSTING**

There will be no provision for stipend/incentive/bond posting to training participants.

### **IMPORTANT INFORMATION:**

- Only after verification of all documents with original copy and submission of required papers, the provisionally selected candidates will be allowed to deposit fees as per the details given below:



- Fees for the Training Programme: On the day of admission to the course, the provisionally selected candidates will be issued e-challan of Rs 50,000/- (Non-refundable) as institute fee and same needs to be paid by the candidate by online mode or depositing the said amount in treasury bank.
- Procedure for payment through online mode.
  - ➔ Go to echallanpg.goa.gov.in portal.
  - ➔ Then go to Have e-challan number.
  - ➔ Enter e-challan number & Rs 50,000/- in total amount & press Go.
  - ➔ Then proceed to enter relevant details as asked in the portal & continue for online payment through internet banking/Debit Card/ UPI.
- This provisional admission will be granted based on the information/documents furnished by the Candidates as per their application form and during the admission process. In case of any credentials/information/document/certificate etc. being detected or identified or being noticed at any point as false/fabricated/tampered/misleading, his/her candidature and certificate are liable to be cancelled and the fees paid will not be refunded. Appropriate action in this regard will be initiated by the Chief Inspector.
- All the Students are required to bring THREE passport-size photographs and one set of self-attested photocopies of all documents/certificates/testimonials including educational & experience certificates along with originals.
- During the training programme, more than 80% attendance is desirable. A minimum of 75% attendance is mandatory to appear for final examinations. Attendance will be counted from the first day of commencement of the course. Those who do not fulfil the minimum required attendance criteria would not be allowed to appear in final examinations.
- All students are required to adhere to the uniform dress code for doctors i.e. White Coat/Apron.
- The expenses towards Food/Stay/Industry Visits/Project Work/Term Work/Examination fees/Lab Reports Books, /Stationeries/copies of study materials/handouts/lectures/ notes and other assignments, etc as part of the curriculum have to be borne by the candidate himself/herself.
- The classes will be held from 9.45 am to 5.45 pm on all working days (Monday to Friday). Students are expected to devote their full time to the course.
- During the tenure of the course, students are required to keep track of the different components of the training programme. The Institute will not be responsible if any deadline is missed by the student.
- Any kind of indiscipline/uncivilized behaviour and unparliamentary language in the Institute, hostel, and campus shall be dealt with strictly and disciplinary action will be initiated by the competent authority.
- There shall be a total ban on any act of ragging performed directly or indirectly by any student of the institute. No student shall commit, abet, propagate, or participate directly or indirectly in ragging in or outside the institute.
- Every student is required to observe discipline and maintain decorous behaviour both inside and outside the Institute and not to indulge in any activity which will tend to bring down the prestige of the Institute and against the professional ethics of the medical practitioners. If a student indulges in malpractice, he/she shall be liable for punitive action as prescribed by the Institute from time to time.
- For any matter related to this training programme, the Decision of the Competent Authority of the Inspectorate of Factories & Boilers, Altinho, Panaji, Goa as applicable/appropriate shall be final.

**APPLICATION FORM FOR ADMISSION TO  
ASSOCIATE FELLOW OF INDUSTRIAL  
HEALTH (AFIH) – 2024-2025**  
(All information should be filled in CAPTIAL LETTERS only)

Affix a recent  
passport  
photograph  
with white  
background  
only

|     |  |    |    |      |
|-----|--|----|----|------|
| 1.  | Name of the applicant (As mentioned in the Medical Council Registration Certificate) in English and Hindi  |    |    |      |
|     | Name of the applicant in Hindi   |    |    |      |
| 2.  | Gender (Male/Female/ Prefer Not to Say)  |    |    |      |
| 3.  | Date of birth (dd/mm/yyyy)   | dd | mm | yyyy |
| 4.  | Address as per AADHAR Card of the applicant  |    |    |      |
|     |  |    |    |      |
|     |  |    |    |      |
| 5.  | Mobile No. of the Applicant  |    |    |      |
| 6.  | E-Mail of the applicant  |    |    |      |
| 7.  | MBBS (or Equivalent) Degree Certificate and Name of the University Institute:  |    |    |      |
| 8.  | Date (DD-MM-YYYY) of Internship Completion:  |    |    |      |
| 9.  | MBBS (or Equivalent) Professional Registration Number as per NMC/MCI and name of the Registering Body (NMC/MCI/Name of the State Medical Council):   |    |    |      |
| 10. | Experience after completion of internship (attach self-attested copies of experience certificates from organization/employers or certificate of self-practice in prescribed format – ANNEXURE-I) (Cut-off date to calculate experience is __ /__ /____). |    |    |      |

## ANNEXURE-I

| Name of the Organization/<br>Employer or Certificate self-Practice with Address | Duration             |                    | Experience in Completed Year | Please Categorically Mention Working experience in Factory/Mines /Dock Works/Construction Work/Plantation Work other establishment or Self Practice as applicable | Experience Certificate/ Certificate of Self-Practice, As applicable: Enclosed (YES/NO) |
|---|----------------------|--------------------|------------------------------|---|--|
|   | From<br>(DD-MM-YYYY) | To<br>(DD-MM-YYYY) |                              |   |  |
|   |                      |                    |                              |   |  |
|   |                      |                    |                              |   |  |
|   |                      |                    |                              |   |  |
|   |                      |                    |                              |   |  |
|   |                      |                    |                              |   |  |
|   |                      |                    |                              |   |  |
|   |                      |                    |                              |   |  |

- Total Experience (Completed Years Only) in Factory/Mines/Dock Works/ Construction Work/Plantation Work: \_\_\_\_\_ YEAR
  
- Total Experience (Completed Years Only) in Other Establishment or Self Practice (ANNEXURE-I) \_\_\_\_\_ YEAR



**11. Postgraduate medicinal degree/diploma (MD/MS/DNB/Diploma) or an equivalent recognized medical qualification as per provisions of the NMC Act 2019 and the repealed Indian Medical Council Act 1956**

| NAME OF THE POST GRADUATE MEDICAL DEGREE (MD/MS/DNB) / POST GRADUATE MEDICAL DIPLOMA /ANY OTHER EQUIVALENT RECONGNISED MEDICAL QUALIFICATION<br><br>(PLEASE MENTION SPECIALITY OR SUPER SPECIALITY ALSO) | TRAINING INSTITUTION OF THE POST-GRADUATE MEDICAL QUALIFICATION | BOARD/ UNIVER-SITY | YEAR OF PASSING | DURATION OF COURSE IN YEARS | IS THE COURSE A RECOGNISED MEDICAL QUALIFICATION AS PER PROVISIONS OF THE NMC ACT 2019 AND THE REPEALED INDIAN MEDICAL COUNCIL ACT 1956 OR EQUIVALENT (YES/NO) |
|--|---|--------------------|-----------------|-----------------------------|--|
|  |   |                    |                 |                             |  |
|  |   |                    |                 |                             |  |
|  |   |                    |                 |                             |  |

● Total period spent on Postgraduate medical degree/diploma (MD/MS/DNB/Diploma) or an equivalent recognized medical qualification: \_\_\_\_\_ YEAR

## 12. DOCUMENTS TO BE ATTACHED WITH THE APPLICATION FORM:

| SR. No | Document Required   | Self - Attested Copies of the Document Attached (YES/No/Not Applicable) |
|--------|---|---|
| 1.     | Matriculation/10th Standard or equivalent certificate indicating date of birth, or mark sheet of Matriculation/10th Standard or equivalent issued by Central/State Board Indicating Date of Birth in support of claim of age. Where date of birth is not available in certificate/mark sheets, Issued by concerned Educational Boards, School leaving certificate indicating Date of Birth or Birth Certificate issued By the Registrar of Births and Deaths or the Municipal Corporation or any other prescribed authority, whosoever Has been empowered under the Registration of Birth and Deaths Act, 1969 to register the birth of a child born in India |   |
| 2.     | AADHAAR CARD of the applicant   |   |
| 3.     | MBBS Degree (or Equivalent) certificate awarded by the University/ Medical Institute. In the absence of the MBBS Degree (or Equivalent) Degree certificate, provisional degree certificate along with mark sheets pertaining to all the Academic years.   |   |
| 4.     | One-Year Internship Completion Certificate  |   |
| 5.     | MBBS (or Equivalent) Professional Registration Certificate as per NMC/MCI/State Medical Council:  |   |
| 6.     | Experience certificate from organization/employers of Factory/ Mines/Dock Works/Construction Work/Plantation Work   |   |
| 7.     | Experience certificates from organization/employers of the establishment other than Factory/Mines/Dock Works/ Construction Work/Plantation Work   |   |
| 8.     | Self-Practice certificate as experience (ANNEXURE-I)  |   |
| 9.     | Documents in supports Post Graduate Medical Degree (MD/MS/ DNB)/Post Graduate Medical Diploma/ Any Other NMC or MCI Recognised Post Graduate Medical Qualification/Equivalent Post Graduate Medical Qualification   |   |
| 10.    | In respect of equivalent Post Graduate Medical Qualification, If a candidate is claiming a particular qualification as equivalent to NMC/MCI recognized post-graduate medical qualification, then the candidate is required to produce a copy of order/letter in this regard, indicating the Authority (with number and date) under which it has been so treated otherwise it will not be considered as recognized post graduate medical qualification.   |   |

13. If any document/certificate furnished is in a language other than Hindi or English, a transcript of the same duly attested by a Gazetted officer or notary is to be submitted.
14. Appointment letter/Pay slip/offer letter/resignation or termination letter/extension letter will not be accepted as Experience Certificate.
15. The applicants are advised to read the information brochure cum application form, course curriculum and guidelines very carefully and then fill the application form meticulously as submission of false/fabricated/tampered/misleading/mismatched information may lead to rejection of the application and candidature at any time.

## ANNEXURE – A

### DECLARATION BY THE CANDIDATE

I, \_\_\_\_\_, s/o or d/o \_\_\_\_\_ hereby declare that the information furnished in this application is true and correct and that no material information has been suppressed by me. I also understand that I stand to be disqualified from being admitted to the Course or from continuance in the Course, in the event of any information being found incorrect/false/fabricated/tampered/misleading/mismatched. While pursuing the 3 months training programme in Industrial Health (AFIH), if found involved in any misconduct/misbehaviour during the study period. I will abide by the decision taken by the Inspectorate of Factories & Boilers, Altinho, Panaji, Goa including dismissal from the Course. I undertake to produce all the Original Certificates, Testimonials, etc. regarding my Educational Qualification, Experience, etc., at the time of admission to the course without fail and non-producing of these documents during admission will disqualify me from seeking admission to this training programme. I also declare that my name is currently present in the Indian Medical Register and/or State Medical Register of the NMC/MCI/State Medical Council and is currently not blacklisted by any authority.

Date:

Applicant's Name and signature

Place:





स्वच्छ भारत  
एक कदम स्वच्छता की ओर

