

WHAT IS OCCUPATIONAL HEALTH?

ILO/WHO Definition

The promotion and maintenance of the highest degree of physical, mental, and social well-being of workers in all occupations.

WHAT IS OCCUPATIONAL DISEASE?

An occupational disease is a disease or disorder that is caused by the work or work environment conditions. This means that the disease must have developed due to exposure in the workplace.



TYPES OF OCCUPATIONAL DISEASE?

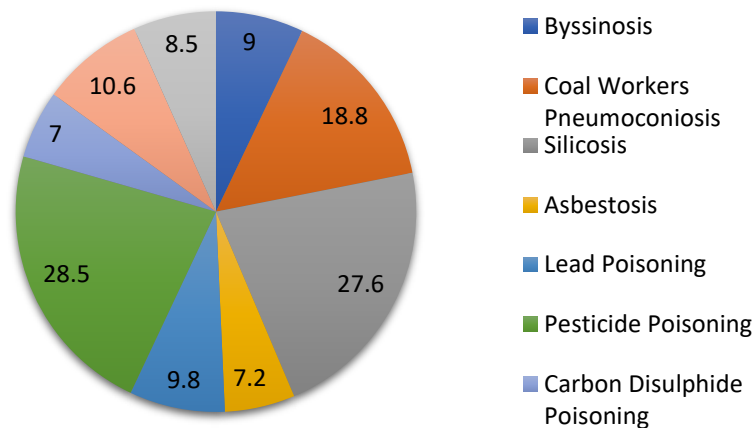
A disease that is *only occupational in origin*. e.g. pneumoconiosis

Disease in which *occupation is one of the causal factors*. e.g. bronchogenic carcinoma

Disease in which the *occupation is a contributing factor* in a complex situation. e.g. chronic bronchitis

Disease in which the *occupation may aggravate a pre-existing disease*. e.g. asthma

INDIAN SCENARIO OF OCCUPATIONAL DISEASES



INDIAN LEGISLATION

Factories Act 1948 - List of Notifiable Occupational Diseases (schedule-III)

<http://dgfasli.nic.in/html/factyact/cs3.htm>

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OBLIGATION ABOUT NOTIFIABLE OCCUPATIONAL DISEASE - UNDER FACTORIES ACT 1948

- Factory manager shall send notice to authority in case any worker is observed with any disease listed in Schedule-III of the Factory Act.
- Medical practitioner shall without delay send a report in writing to the office of the Chief Inspector in case any worker is observed suffering from any disease listed in Schedule III of the Factory Act.
- Factory medical officer shall maintain an up-to-date record of pre-employment and periodical medical examination and issue a fitness certificate before employment.
- Workers exposed to occupational health hazards shall be medically examined once every six months to ascertain medical fitness.

LIST OF NOTIFIABLE OCCUPATIONAL DISEASES

1. Lead poisoning including poisoning by any preparation or compound of lead or their sequelae
2. Lead tetra-ethyl poisoning
3. Phosphorous poisoning or its sequelae
4. Mercury poisoning or its sequelae
5. Manganese poisoning or its sequelae
6. Arsenic poisoning or its sequelae
7. Poisoning by nitrous fumes
8. Carbon bisulphide poisoning

9. Benzene poisoning, including poisoning by any of its homologs, their nitro or amido derivatives, or its sequelae
10. Chrome ulceration or its sequelae
11. Anthrax
12. Silicosis
13. Poisoning by halogens or halogen derivatives of the hydrocarbons, of the aliphatic series
14. Pathological manifestation due to
 - a. radium or other radioactive substances
 - b. X-rays
15. Primary epitheliomatous cancer of the skin
16. Toxic anaemia
17. Toxic jaundice due to poisonous substances
18. Oil acne or dermatitis due to mineral oils and compounds containing a mineral oil base
19. Byssinosis
20. Asbestosis
21. Occupational or contact dermatitis caused by direct contact with chemicals and paints
22. Noise-induced hearing loss (exposure to high noise levels)
23. Beryllium poisoning
24. Carbon monoxide
25. Coal miners' pneumoconiosis
26. Phosgene poisoning
27. Occupational cancer
28. Isocyanate poisoning
29. Toxic nephritis

CAUSES OF OCCUPATIONAL DISEASE & EXAMPLES

Physical Factor

Noise	Deafness
Vibration	Disorder of Muscles, Tendons, Joints, Blood Vessels and Nerves
Ionizing Radiation	Dermatitis, Cataract, Bone Narrow - Damage, Cancer

Chemical Factor

Toxic Chemicals	Acute and Chronic Poisoning
Corrosive Chemicals	Irritation to Eyes, Skin, Respiratory Tract, Chemical Burns
Allergic Chemicals	Dermatitis, Bronchial Asthma
Carcinogenic Chemicals	Cancer

Air Born PM

Inorganic (Silica, Asbestos, Coal Dust)	Silicosis, Pneumoconiosis, Asbestosis
Organic Dust	Byssinosis, Bagassosis, Asthma

Biological Agent

Bacteria, Viruses	Hepatitis, Pneumonia, Anthrax
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Psychological Factor

Shift Change, Less Wages, Work Conflicts	Sleep Disturbance, Mental Stress, Depression, Burn Out Syndrome
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DIAGNOSTIC METHODS

- | | |
|--|---|
| i. History of Exposure | ii. Urine - Routine & Microscopic Examination |
| iii. Pre-employment Medical Checkup | iv. Pulmonary Function Test (PFT) |
| v. Periodical Medical Checkup | vi. X-Ray Chest |
| vii. Clinical Medical Examination | viii. Ultra Sonography (USG) |
| ix. Specific Investigation for Target Organs | x. Biological Monitoring |
| xi. Complete Blood Counts with Hb% | |

STATUTORY FORMS

Form-22	Notice of Occupational Disease
Form-30	Certificate of Fitness
Form-32	Health Register or Periodical Medical Checkup Register
Form-33	Pre-employment Medical Examination

Form numbers may vary in each state according to State Factory Rules.

WHY WE



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