Introduction to Hazards: 
Exposure & Identification

Terminology

SAFETY

Degree of freedom from hazard
Which one has a high priority in my job?

Hazardous Agents

- Physic
- Chemical
- Biological
- Mechanical
- Psychological

- Physic
- Chemical
- Biological
- Ergonomic
- Psycho-Social

- Physic
- Chemical
- Biological
- Ergonomic
Physical Agents

- Noise
- Vibration
- Heat
- Air Pressure
- Radiation
- Illumination

Chemical Agents

- Dust
- Gas & Vapor
- Mist & Fog
- Fume
- Solvents
- Smoke & SMOG
- **Threshold Limit Value (TLV)**
  - Average concentration/amount/level of a hazardous agent which most workers could be safely exposed over an eight-hour working day or forty-hour working week throughout a working lifetime.

- **Maximal Allowable Concentration (MAC)**: peak or maximum concentration of an airborne to which most workers could be safely exposed.

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**ROUTES OF ENTRY**

- inhalation
- ingestion
- skin
- Injection

- absorption
  - epidermis
  - lungs
  - gastro-intestinal tract
- direct entry into the body