

OCCUPATIONAL HEALTH

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OCCUPATIONAL HEALTH HAZARDS

CLASSIFICATION OF HEALTH HAZARDS

■ Acute Hazards

- ☺ Faster to detect their effect .
- ☺ Easier to identify and access their risk factors
- ☺ Hazards easier to see and detect.
- ☺ Hazards in terms of “structural faults” (slippery stairs, hole floor).
- ☺ Involve chemical
(i.e., highly flammable, toxic or poisonous, irritating or harmful, explosive, radioactive, corrosive)

CLASSIFICATION OF HEALTH HAZARDS

■ Chronic Hazards

- ☺ long time to detect their effect.
- ☺ Difficult to identify and access their risk factors. Need help from expert person
- ☺ Hazards difficult to see and detect
- ☺ Hazard from chemical, noise, vibration, temperature, agronomic, work stress.

GROUPS OF HEALTH HAZARD

- **PHYSICAL**
- **CHEMICAL**
- **BIOLOGICAL**
- **ERGONOMICS**
- **PSYCHOSOCIAL**

OCCUPATIONAL DISEASES

HAZARD



EXPOSURE

RISK



WORK AND ENVIRONMENT

DISEASES

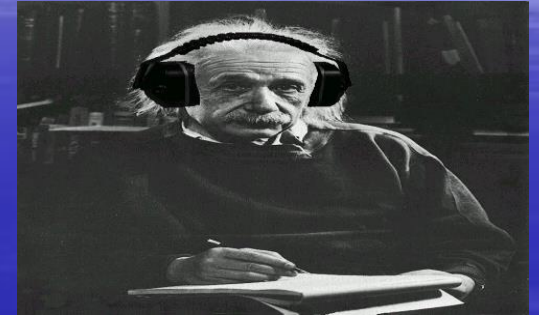


SEVERE



PHYSICAL HAZARDS

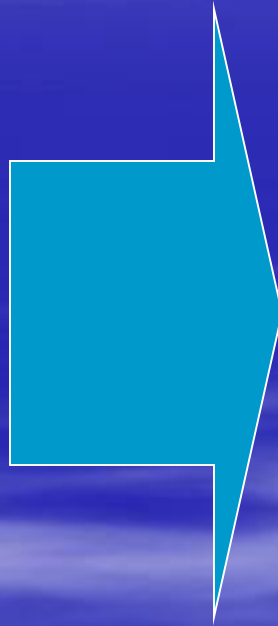
- *NOISE
- *HOT/COLD
TEMPRETURE
- *VIBRATION
- *RADIATION
- *AFFECT OF
ENVIRONMENT



CHEMICAL HAZARDS

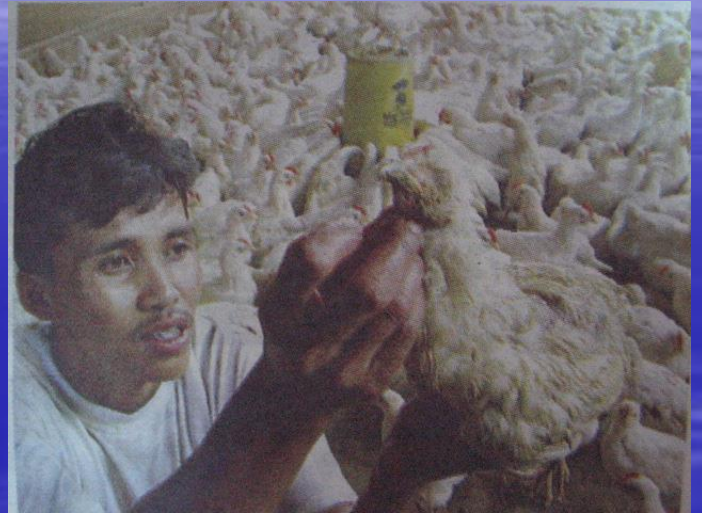
CHEMICAL
HAZARDOUS
RELATED TO
HEALTH

(i.e. Mercury,
phosphorus,
bromium,
ammonia)



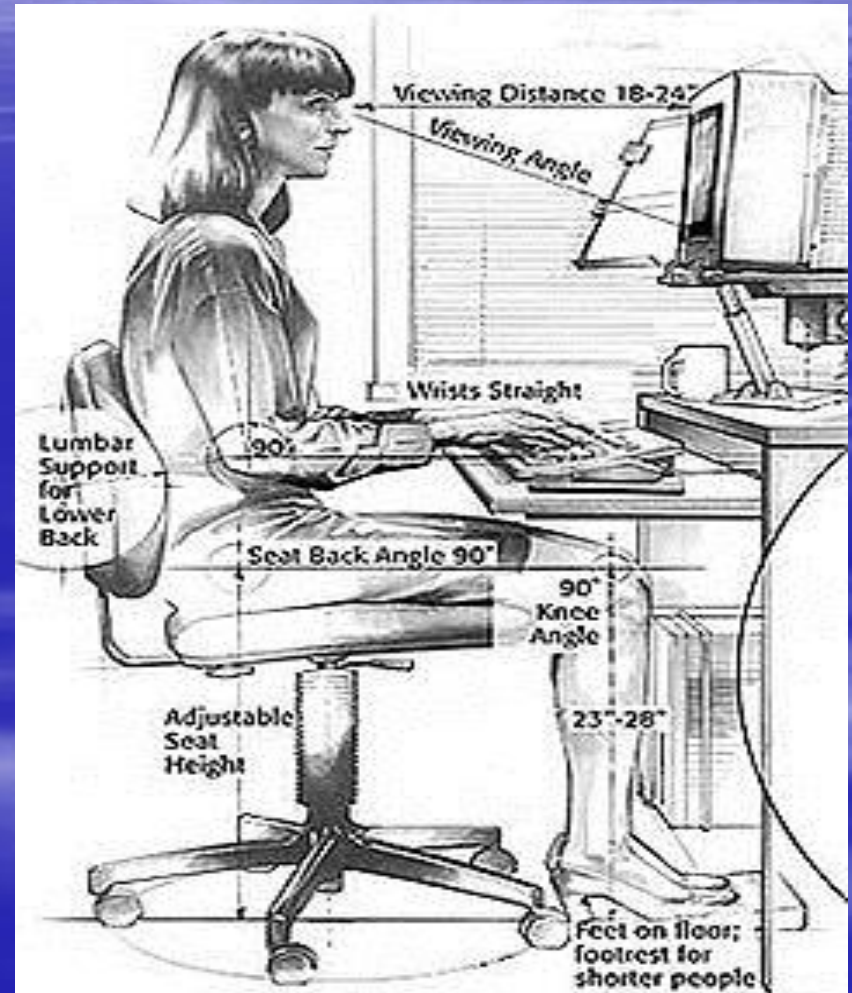
BIOLOGICAL HAZARDS

BACTERIA
VIRUS
WORM
PROTOZOA



ERGONOMICS HAZARDS

Ergonomics is the science of designing the job, equipment, and workplace to fit the worker. Proper ergonomic design is necessary to prevent repetitive strain injuries, which can develop over time and can lead to long-term disability



HAZARD PSYCHOSOCIAL

- **JOB STRESS**
- **SHIFT WORK**
- **OVERLOAD WORKS**
- **FIERCE BOS**
- **EMPLOYEE PROBLEMS**

GROUPS OF SAFETY HAZARD

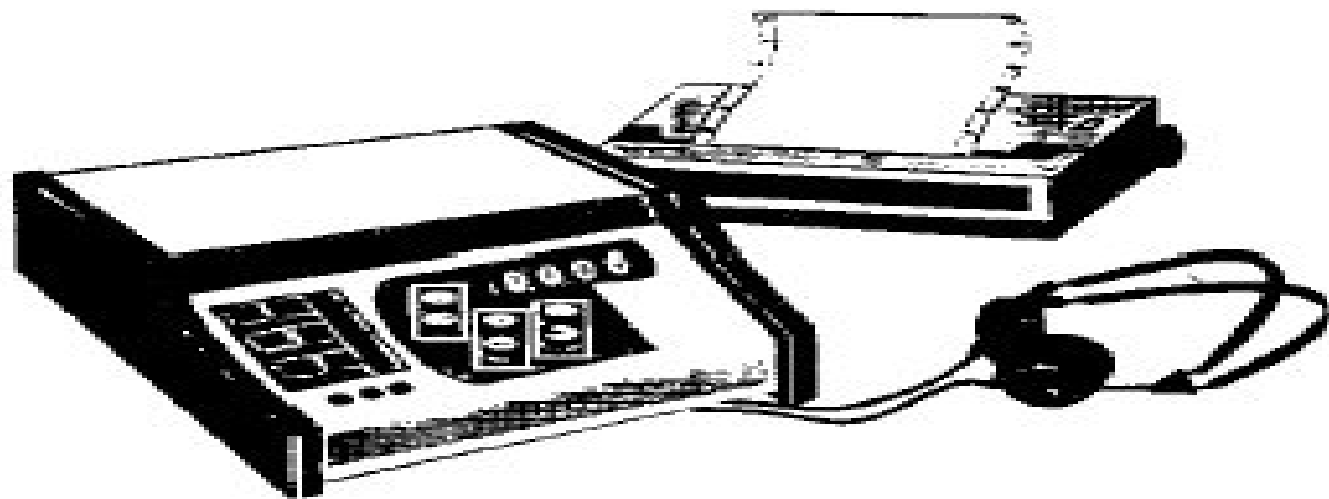
- **Mechanical/Machine** – smashed, knocked, cut and involvement with equipments / machines that would cause injuries to the workers.
- **Height/Gravity** – Caused fallen objects or human falling from high places.
- **Electrical** – Electric shock or fire due to short circuits and result of flowing electricity.

GROUPS OF SAFETY HAZARD

- **Fire/Explosion** – Can cause burnt, injuries and deaths.
- **Poison in Confined Spaces** – Lack of air and oxygen due to confined spaces and would result in losses for the workers.

SCOPE OF HEALTH AND OCCUPATIONAL HEALTH

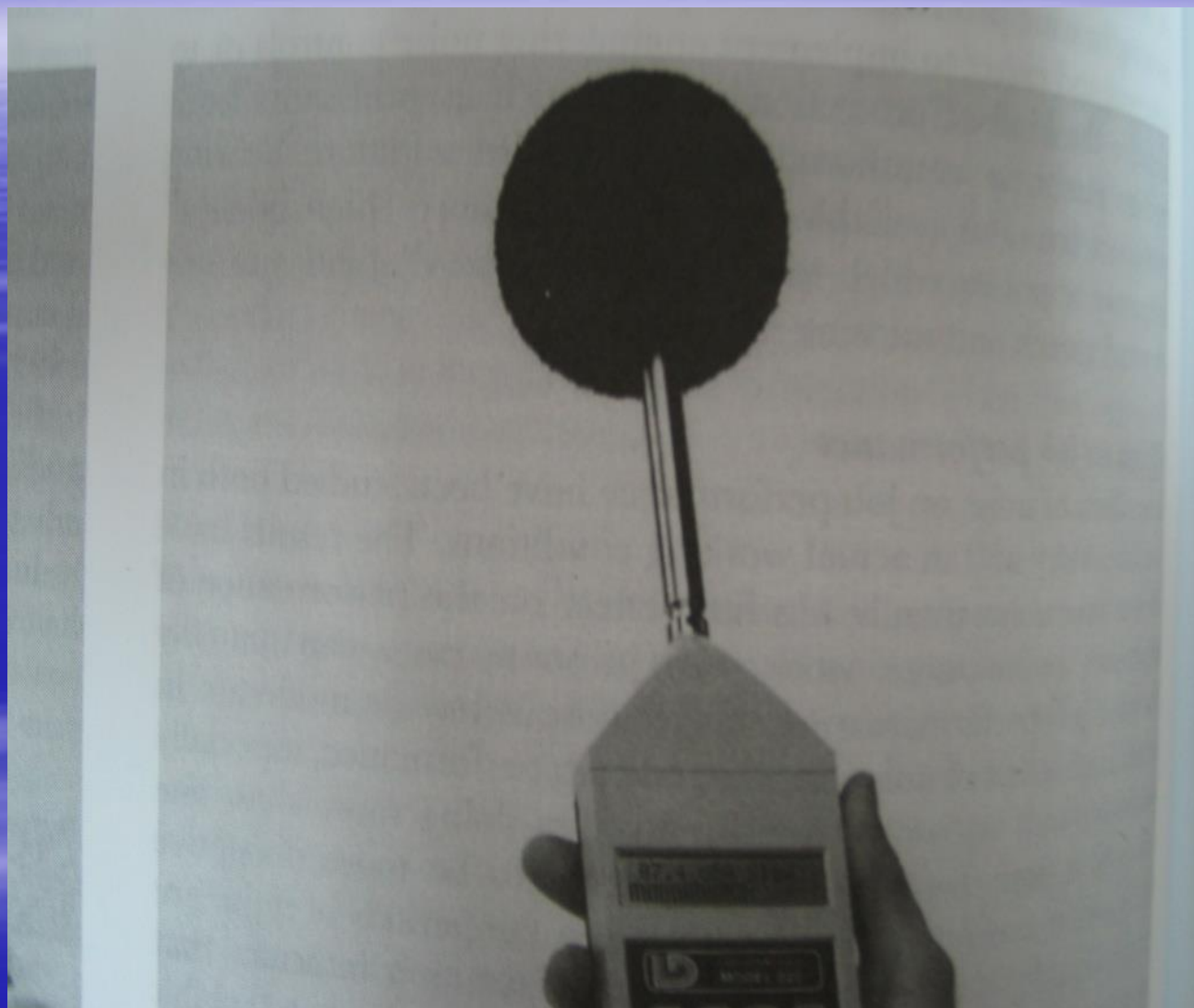
Audiometer System



Audiobooth

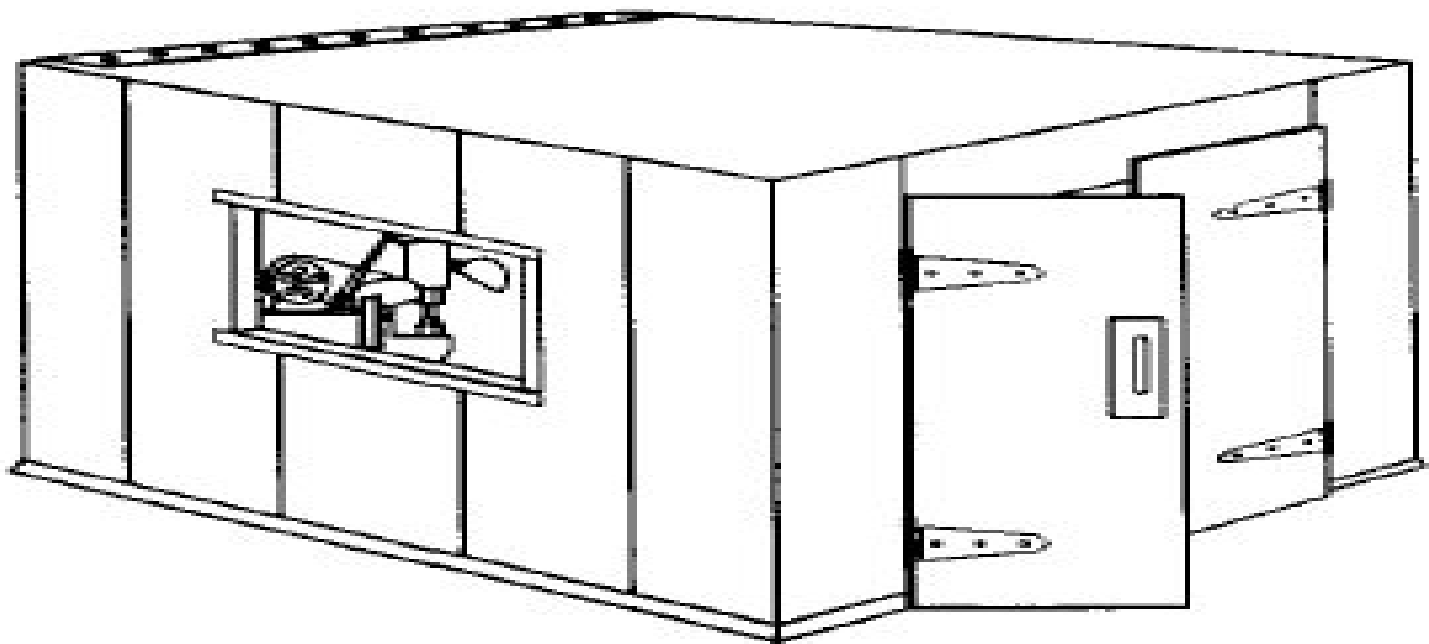


MONITORING ENVIRONMENT AND BIOLOGY

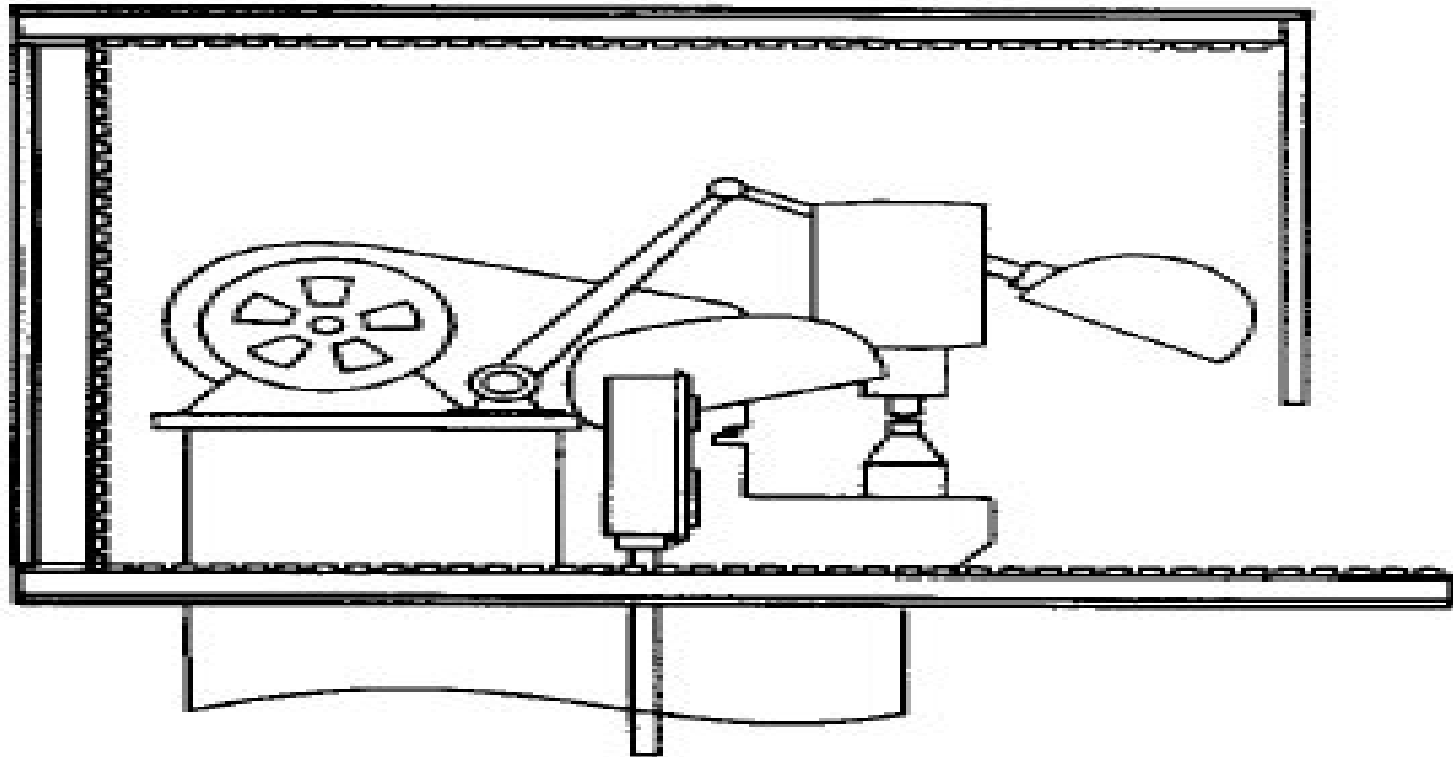


PREVENTION

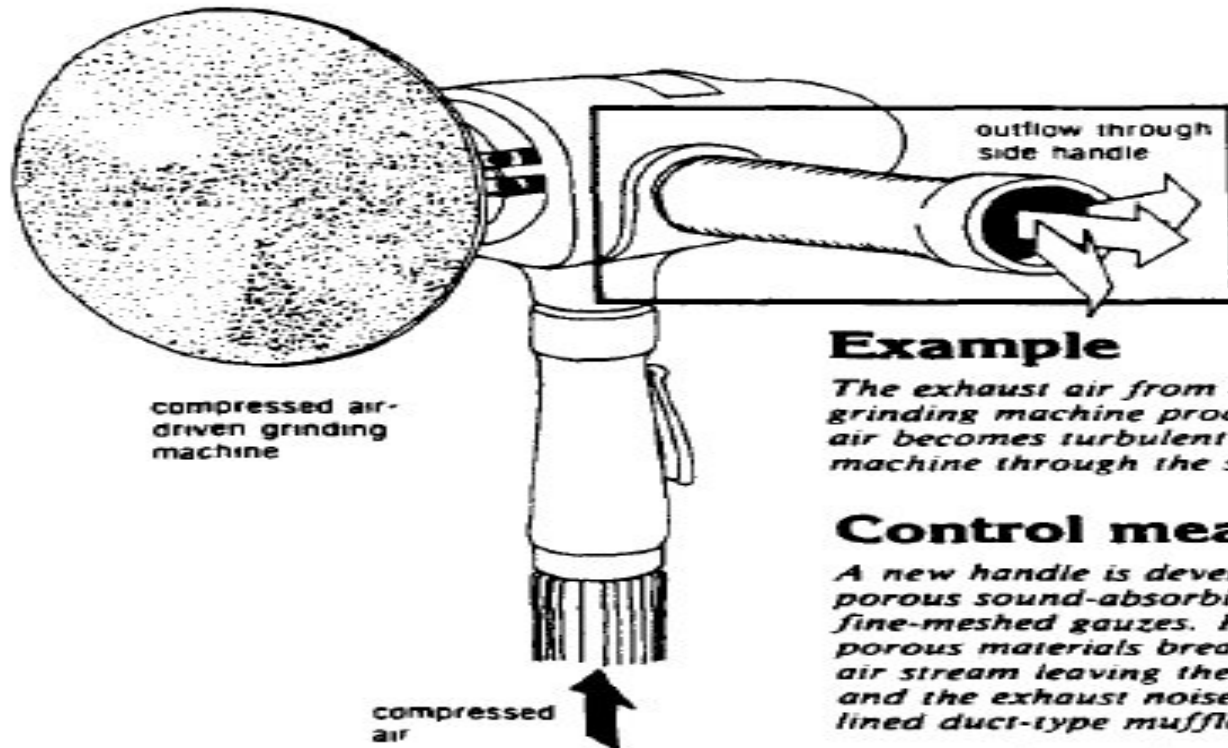
Complete Enclosure



Partial Enclosure



ENGINEERING CONTROL

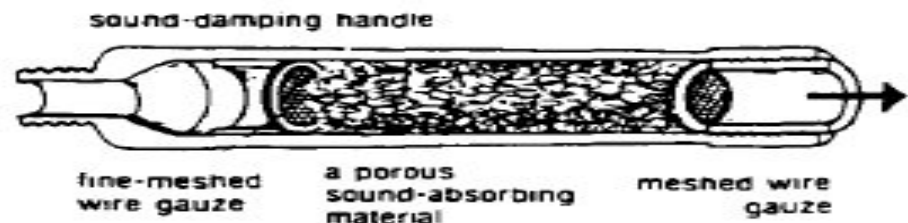


Example

The exhaust air from a compressed air-driven grinding machine produces a loud noise. The air becomes turbulent while leaving the machine through the side handle.

Control measure

A new handle is developed, filled with a porous sound-absorbing material between two fine-meshed gauzes. Passage through the porous materials breaks up the turbulence. The air stream leaving the handle is less disturbed, and the exhaust noise is weaker. A straight lined duct-type muffler may also be used.



ADMINISTRATIVE CONTROL LIKE TRAINING



PPE (PERSONAL PROTECTIVE EQUIPMENT)

Coveralls



Full Body Suit



THANK YOU