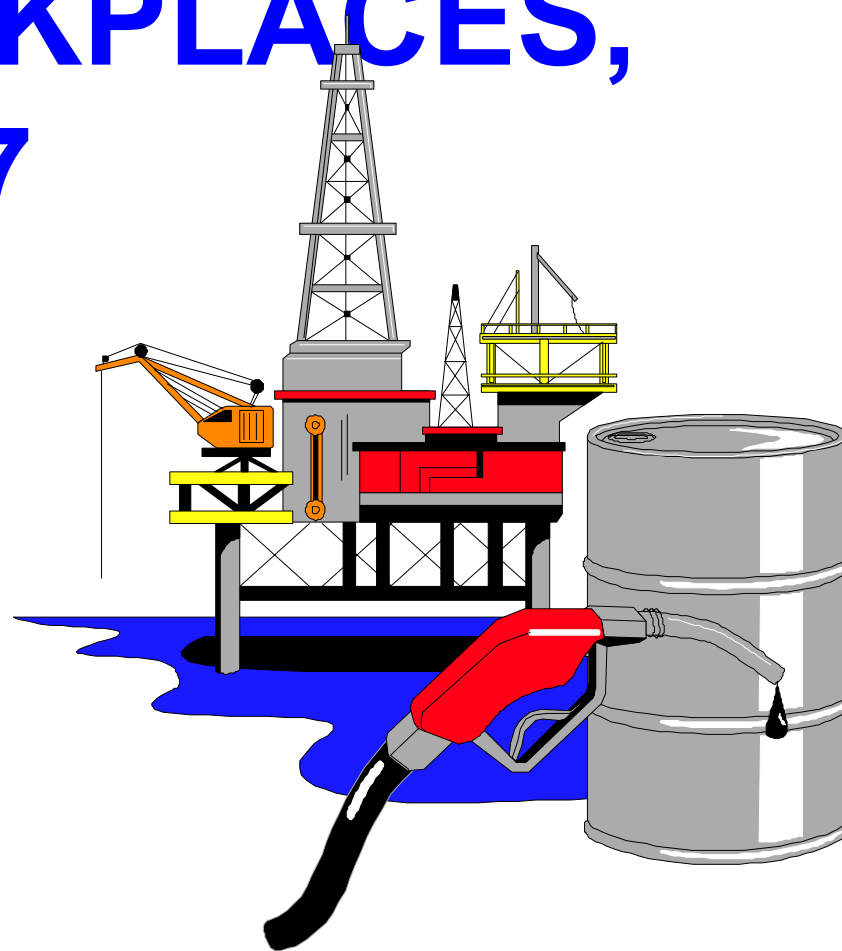


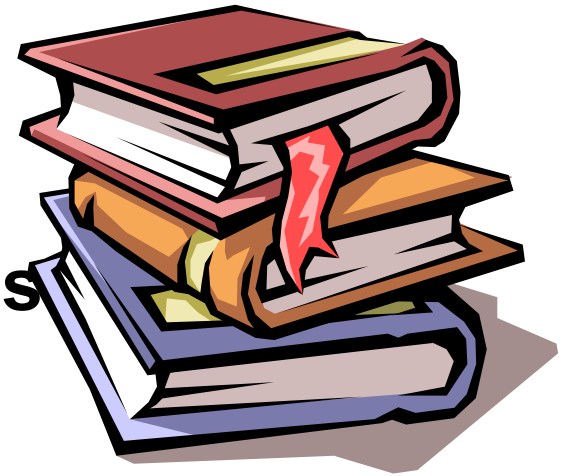
# ENVIRONMENTAL REGULATIONS FOR WORKPLACES, 1987



5/11/2004

# Learning objectives

- Understanding effects of environment on health and safety
- Heat, lighting, housekeeping, noise, fire and emergency exit
- Exposure Control
- Records
- Incorporation of standards





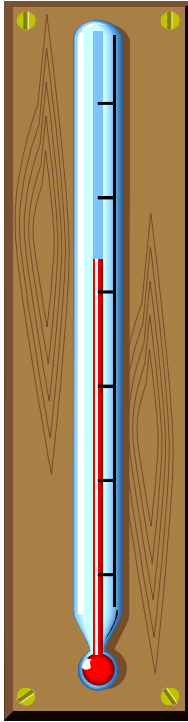
# Thermal requirements

Employees prohibited to work in environment where **Time weighted average dry bulb temperature  $< 6^{\circ}\text{C}$**  unless precautionary measures implemented

Employees prohibited in working in refrigerated environment where **Dry bulb temperature  $< 0^{\circ}\text{C}$**  unless time exposure is controlled or PPE is provided and certified medically fit

Hand held tools vibrate  $< 1000\text{Hertz}$  and Dry bulb temperature  $< 6^{\circ}\text{C}$  then PPE to be worn viz to prevent conditions such as white finger circulation problems

5/11/2004





# Thermal requirements

If **Wet bulb globe thermometer > 30**, employer to implement control measures:

- \* reduce index
- \* where impractical and where hard manual labour is performed, have employees certified fit annually by medic
- \* ensure employees are acclimatized
- \* Provide and enforce employees with 600ml/hour liquids
- \* train employees in precautions
- \* provide first aid facilities

**Note:** where issue of hard manual labour arises, decision of inspector is decisive

# Lighting

3 Employer to ensure lighting meets specifications in schedule

and specialized lighting where required

\*luminaires are kept clean and when defective, replaced or repaired forthwith



# Lighting



Emergency sources of lighting to provide not less than **0,3 lux** at floor level in normal circumstances and not less than **20 lux** where dangerous materials or processes are present

## Emergency lighting

- \*capable of activation within 15 sec's of failure of lighting
- \*last long enough to ensure safe evacuation
- \*kept in good working order and tested every 3 months



# Housekeeping

## PRACTICE

### GOOD HOUSEKEEPING

**A PLACE FOR  
EVERYTHING AND  
EVERYTHING IN PLACE**

**Employer to ensure sufficient clear, unobstructed space at every machine so as to work safely and**

**\*apart from building work provide at least 2,25 m<sup>2</sup> per employee**

**\*keep every workplace clean and free of obstructions**

**\*keep roof and walls sound and leakfree**

**\*guard all open sides of doors or buildings**



# Noise and hearing conservation



No employer to allow employees to work in area where he is exposed to an **equivalent noise level equal or higher than 85 dB(A)**.

Employer to reduce level acoustically and where not possible

- \* demarcate boundaries of all noise zones by posting up conspicuous notices at entrances and exist from area
- \* prohibit persons from entering such zone unless wearing ear protectors

# Noise and hearing conservation

Employees working in noise zones required to undergo audiometric examination as per SABS 083 by audiometrist approved by the CI.

Audiometric results to be kept for 30 years and available for inspection by an Inspector

AIA to be appointed to measure noise levels for zoning purposes in accordance with SABS 083.





# Fire precautions and means of exit

Employer shall provide in case of a fire the following safety measures:

- \* emergency escape door opens outwards
- \* emergency doors kept clear and are easily openable
- \* staircases and steps provided with substantial hand-rails
- \* fire staircases constructed on non-combustible material, kept clear of any material or obstruction and should not terminate in an enclosed area
- \* escape stairs, passages and exit of a width and gradient to facilitate quick and safe exit of all persons
- \* at least 2 means of exit situated as far as possible apart

# Fire precautions and means of egress



Suitable, adequate supply of fire-fighting equipment at strategic locations or as recommended by the local fire chief and such equipment to be maintained in good working order



5/11/2004





# Incorporation of safety standard

- SABS Code 083
- SABS Code 1451 Parts I and II

