Addis College
Construction project management

Construction Project Healthy and safety management

June 2019

10. Health and Safety Management

- Construction is the **most dangerous and hazardous**
- In industrial countries, it accounts for about 10% of the disability injuries and 20% of the fatalities that occur in the industrial work force.
- These works related injuries and illnesses are exceedingly **costly.**

10. Health and Safety Management...

- **Direct costs** that include medical costs, premiums for workers' compensation benefits, liability and property losses etc.
- Contractors may pay insurance premiums directly to cover such costs
- **Indirect costs** that include:
  - reduced worker productivity,
  - Damage to equipment and the facility,
  - First aid expenses,
  - Idle equipment time,
  - Loss of skilled worker
  - Administrative and legal expenses
  - Lowered employee morale
- Injuries on bystanders (Third Party) from construction accidents. Several crane collapses from high rise buildings under construction have resulted in fatalities to passersby.

10. Health and Safety Management…

- The causes of injuries in construction are numerous.
- The largest single category for both injuries and fatalities are:
  - Individual falls: a railing might not be secured, a worker might be inattentive, and the footing may be slippery etc.
  - Handling of goods: falling from an elevation being struck by something,
  - Transportation incidents,
  - Being caught between two objects,
  - Electric shock.

10. Health and Safety Management…

- Construction has a number of characteristics making it inherently hazardous.
- Various measures are available to improve jobsite safety in construction.
- This includes:
- Educating workers and
- managers in proper procedures and hazards can have a direct impact on jobsite safety.

10. Health and Safety Management…

- **Personal protective equipment**:
  - Head protection (hard hats),
  - Hand protection (gloves),
  - Foot protection (Safety shoes),
  - Eye protection (safety glasses and goggles),
  - Body protection (protective clothing, oily body-paint),
  - Hearing protection (earplugs and earmuffs),
  - Respiratory protection (respirators),
  - Providing first-aid supplies and trained personnel on site.

10. Health and Safety Management…

- **Hazardous Materials Communications**: It is required that all personnel working on a construction site be informed of all chemicals being used on the site and any harmful effect
  - Warning labels on all containers indicating the specific hazard posed,
  - Posting of material safety data sheets
  - Specialized training regarding the safe handling, transporting, storage and use of the chemicals.
- **Pre-qualification of contractors and sub-contractors with regard to safety** is another important avenue for safety improvement.
  - Contractors are only invited to bid or enter negotiations if they have an acceptable record of safety (as well as quality performance), then a direct incentive is provided to insure adequate safety on the part of contractors.

Thank you!