

	<b>CONSTRUCTION GENERAL SAFETY PRECAUTIONS-CRANE, LE &amp; PPE'S</b>	Date:
		Ref:

**1- EXPLAIN EXPLANATION ABOUT CRANE AND LE.**

- A. Only authorized and competent persons should operate cranes
- B. The correct sling must be used for the load to be lifts
- C. Lifting equipment must be certified by the competent authority and marked with its SWL
- D. Never be used for loads excess of its SWL
- E. Cables and slings must be padded when passing over sharp edges of equipment
- F. Check the condition of the ground before parking the crane and use outriggers
- G. All moving parts must be guarded
- H. Uncertified chains, ropes, slings and hooks should not be used
- I. All slings must be inspected by certified third-party inspectors.
- J. Avoid standing or working beneath suspended loads.
- K. Place the outriggers on the firm ground
- L. Guide ropes should be used to control the swing of lifted materials.
- M. Do not operate the crane during high wind speeds.
- N. Avoid lifting over live equipment whenever possible.
- O. The crane should undergo periodical maintenance as per manufactures

**2- GENERAL SAFETY PRECAUTIONS IN CONSTRUCTION?**

- A. Adequate first aid equipment should be kept ready
- B. Adequate firefighting equipment should be available
- C. All general electrical rules should be followed
- D. Suitable lighting arrangements should be necessary at night work
- E. Workforce/workers at height should wear safety belts
- F. Workmen handling cement should be given goggles, rubber gloves and rubber boots by nose masks.
- G. The moving parts of the grinding machines used on the construction site should be covered with guards.
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- I. Excavated material should not kept near the excavated
- J. For the very short duration of work red flags must be hoisted and more duration red banners must be stretched
- K. Defective tools should not be used
- L. The worker should not carry tools in his hands when climbing a ladder
- M. Excavation should be guarded by suitable fencing

### 3- EXPLAIN PERSONAL PROTECTIVE EQUIPMENT. P.P.E?

1. *Head protection PPEs - Hard hat, cap, and helmet*
  - a. Made - aluminium, PVC, fiberglass, Plastic
  - b. Protect - heal, spark, dangerous materials
2. *Face and eye protection PPE's - Spectacles, Welding goggles, face shield*
  - a. Protect - flying particles, radiation
  - b. Hand protection - Gloves, hand pads
  - c. Made - leather, rubber, PVC, asbestos
  - d. Protect - acid, oil grease, pure Alex rubber gloves electrical
3. *Foot and leg protection PPEs - Safety shoes, gum boots, foot leg guard*
  - a. Made - Metal, leather, rubber
  - b. Project - falling materials and electrical work
  - c. Body protection - Apron, hood, coverall, and jacket
  - d. Made rubber, leather canvas, lead, PVC asbestos
  - e. Asbestos hood - Firefighting
  - f. Rubber, PVC full suit - (Corrosively liquid, fumes, vapour)
  - g. Safety belts - work exceeds 3 mtrs
4. *Ear production - earmuff PPE's - noise - 30 - 135DB*
  - a. Earplug - 115 - 120 DB