# CRH Fundamentals for Fatality Elimination



#### 1. Risk Assessment

- Each Company must have a documented Risk Assessment Policy in place and it must be communicated to all locations.
- Risk Assessment policies must specifically address non-routine tasks, work carried out by contractors and temporary employees, construction work and off-site delivery procedures.

#### 2. Mobile Plant Safety

- Each location must have documented site transport rules in place, based on a site transport assessment which, at a minimum, address:
  - Vehicle-pedestrian segregation.
  - Edge protection for slopes/benches.
  - Driver training rules and assessment.
  - Vehicle rules speed, alarms, reversing systems, testing, use of mobile phones.
- All drivers must be trained and regularly assessed and must carry out documented daily pre-use company vehicle inspections for both on-site and off-site use.
- Seat belts must be worn by all drivers.
- All loads must be secure and within vehicle weight limits.

### 3. Isolation of Operating Machinery

- Each location must have a documented lock-out/tag-out policy incorporating machine specific lock-out/tag-out rules.
- All employees must be trained in the policy and all relevant employees trained in machinery specific rules for lock-out/tag-out.
- Each location must carry out and document regular checks of the integrity of lock-out/tag-out and interlock systems.

#### 4. Machinery Guarding

- Each location must maintain a documented system for regular checking of machinery guarding.
- No machinery may be operated without all tail pulleys, pinch points, exposed shafts and exposed moving parts being appropriately guarded.
- No machine may be put into operation after maintenance without authorisation.

#### 5. Confined Space Entry

- All locations must have a documented confined space entry policy and supporting rules for each confined space identified on site.
- Employees must seek prior authorisation to enter a confined space and documented authorisation procedures must form part of each location's confined space entry policy.
- Shoring or appropriately designed sloping must be provided for all excavations over 1.5m (5 feet) in depth.
- All employees at each location must be trained in the confined space entry rules.

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## 6. Working at Heights

- All locations must carry out a Risk Assessment related to working at heights and document location-specific and task-specific operating rules.
- Collective measures and/or personal protective equipment must be provided in all cases of working at heights, consistent with the findings of the location Risk Assessments.
- Specific training must be given to all relevant employees relating to working at heights.

## 7. Lifting Operations

- All operators of lifting equipment static or mobile must be trained in the operation of the equipment.
- Specific areas where lifting can take place must be designated "out of bounds" to personnel during lifting.
- Documented checks must be carried out on personnel competency, equipment certification and loading rates in accordance with a defined location specific policy.

## 8. Underground and Overhead Utility Dangers

- A documented Risk Assessment must be carried out for all underground work and must include site surveys for utility lines.
- A documented Risk Assessment must be carried out for all lifting operations and for the use of mobile cranes and excavators taking specific account of overhead utility lines.

## 9. Use of Personal Protective Equipment (PPE)

- Each location must have a documented PPE policy for all areas of operation and for specific tasks where relevant.
- No employee will be permitted to work without the required PPE.
- Daily visual inspections of PPE use must be carried out at each location.

#### 10. Conveyance and Storage of Materials under Pressure

- All pressurised conveying and storage systems for solids, liquids and gases must be designed with pressure relief systems which must be documented and regularly checked.
- Site maintenance schedules must include regular checks on the integrity of pressure relief systems. No pressurised conveying system containing a defective pressure relief system may be operated.

#### 11. Blasting Operations

- Each location, where blasting takes place, must have a documented site specific "safe blast policy" and implementing rules.
- All employees carrying out blasting operations must be trained in the site specific rules.
- Operating records of all blasts must be maintained.