RISK ASSESSMENT WIZARD



CRANE OPERATION AND LIFTING SERVICES

Safety Guide

Construction Trade

4	16	3
Key Benefits	Control Measures	Checklist Items

KEY BENEFITS

Safe Handling

Ensures safe handling and movement of heavy materials.

Efficiency

Increases operational efficiency and reduces downtime.

Precision

Enhances precision in material placement and assembly.

Productivity

Improves overall project timelines and productivity.

KEY HAZARDS & CONTROL MEASURES

Dropped Loads

- ✔ Use certified lifting accessories inspected before use
- ✔ Ensure loads are properly rigged by trained personnel
- ✔ Establish and enforce exclusion zones beneath lifts
- ✔ Never exceed safe working load limits

Overhead Power Lines

- ✔ Survey site for overhead lines before crane positioning
- ✔ Maintain safe clearance distances from power lines
- ✔ Use goal posts and barriers where necessary
- ✔ Contact power company for isolation if required

Weather Conditions

- ✔ Monitor weather forecasts before and during operations
- ✔ Establish wind speed limits for each lift type
- ✔ Suspend operations when conditions exceed limits
- ✔ Use anemometers on tower cranes

Swing Radius Hazards

- ✔ Mark swing radius clearly on ground
- ✔ Use physical barriers to exclude personnel
- ✔ Appoint trained signallers for operations
- ✔ Maintain radio communication with operator

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