


PLANT RISK ASSESSMENT (MOBILE CRANE)

SS-WHS-SAF-000

Authorised By:

Rev 1 [Publish Date]



| | | |
|------------------------------|--------------|---|
| EQUIPMENT DESCRIPTION | Mobile Crane |  |
| EQUIPMENT USED FOR | | |
| MAKE | | |
| MODEL | | |
| ASSESSED BY | | |
| DATE OF ASSESSMENT | | |

| CRITERIA | Y / N | L(I) | C(I) | R(I) | RECOMMENDED CONTROLS | L(R) | C(R) | R(R) |
|--|-------|------|------|------|----------------------|------|------|------|
| 1. Can a person's hair, clothing, gloves, necktie, jewellery, cleaning brush or rag become entangled with moving parts of the plant? | | | | | | | | |
| 2. Can anyone be crushed due to: | | | | | | | | |
| • material falling off the plant? | | | | | | | | |
| • uncontrolled or unexpected movement of the plant? | | | | | | | | |
| • lack of capacity for the plant to be slowed, stopped or immobilised? | | | | | | | | |
| • the plant tipping or rolling over? | | | | | | | | |
| • parts of the plant collapsing? | | | | | | | | |
| • coming into contact with moving parts of the plant during testing, inspection, operation, maintenance, cleaning or repair? | | | | | | | | |
| • being thrown off or under plant? | | | | | | | | |
| • being trapped between the plant and materials or fixed structures? | | | | | | | | |
| • other factors not mentioned? | | | | | | | | |
| 3. Can anyone be stabbed or punctured due to: | | | | | | | | |
| • coming in contact with sharp or flying objects? | | | | | | | | |
| • coming in contact with moving parts during testing, inspection, operation, maintenance, cleaning or repair? | | | | | | | | |
| • the plant, parts of the plant or work pieces disintegrating? | | | | | | | | |
| • work pieces being ejected? | | | | | | | | |
| • the mobility of the plant? | | | | | | | | |
| • uncontrolled or unexpected movement of the plant? | | | | | | | | |
| • other factors not mentioned? | | | | | | | | |
| 4. Can anyone's body parts be sheared between two parts of the plant, or between a part of the plant and a work piece or structure? | | | | | | | | |
| 5. Can anyone be struck by moving objects due to: | | | | | | | | |
| • uncontrolled or unexpected movement of the plant or material handled by the plant? | | | | | | | | |
| • the plant, parts of the plant or work pieces disintegrating? | | | | | | | | |

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| • work pieces being ejected? | | | | | | | | | |
| • mobility of the plant? | | | | | | | | | |
| • other factors not mentioned? | | | | | | | | | |
| 6. Can anyone come into contact with fluids under high pressure, due to plant failure or misuse of the plant? | | | | | | | | | |
| 7. Can anyone be injured by electrical shock or burnt due to: | | | | | | | | | |
| • the plant contacting live electrical conductors? | | | | | | | | | |
| • the plant working in close proximity to electrical conductors? | | | | | | | | | |
| • overload of electrical circuits? | | | | | | | | | |
| • damaged or poorly maintained electrical leads and cables? | | | | | | | | | |
| • damaged electrical switches? | | | | | | | | | |
| • water near electrical equipment? | | | | | | | | | |
| • lack of isolation procedures? | | | | | | | | | |
| • other factors not mentioned? | | | | | | | | | |
| 8. Can anyone be injured by explosion of gases, vapours, liquids, dusts or other substances, triggered by the operation of the plant or by material handled by the plant? | | | | | | | | | |
| 9. Can anyone be injured due to: | | | | | | | | | |
| • poorly designed seating? | | | | | | | | | |
| • poorly designed operator controls? | | | | | | | | | |
| • high forces? | | | | | | | | | |
| • awkward body posture or the need for excessive effort? | | | | | | | | | |
| • repetitive movements? | | | | | | | | | |
| • vibration? | | | | | | | | | |
| • other factors not mentioned? | | | | | | | | | |
| Can anyone be injured due to unexpected start-up, unexpected over-run/over-speed (or similar malfunction) from: | | | | | | | | | |
| • failure/disorder of the control system, for example a hydraulic system? | | | | | | | | | |
| • restoration of energy supply after an interruption? | | | | | | | | | |
| • external influences on electrical equipment? | | | | | | | | | |
| • other environmental factors (gravity, wind, etc.)? | | | | | | | | | |
| • errors in the software? | | | | | | | | | |
| • errors made by the operator? | | | | | | | | | |
| Can anyone be injured due to: | | | | | | | | | |
| • noise? | | | | | | | | | |
| • inadequate or poorly placed lighting? | | | | | | | | | |
| • entry into any confined spaces of the plant? | | | | | | | | | |
| • failure to select plant that is suitable for its intended use? | | | | | | | | | |
| • contact with hot or cold parts of plant? | | | | | | | | | |

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|--|--|--|--|--|--|--|--|
| <ul style="list-style-type: none"> exposure to hazardous chemicals, radiation or other emissions released by the plant? | | | | | | | |
| <ul style="list-style-type: none"> lack of operator competency? | | | | | | | |
| <ul style="list-style-type: none"> other factors not mentioned? | | | | | | | |
| <ul style="list-style-type: none"> restricted vision due to seating position? | | | | | | | |

| Risk Matrix | | Consequences | | | | |
|-------------|---|---|--|--|---|--|
| | | Insignificant (1) No injuries/ minimal financial loss | Minor (2) First aid treatment/ medium financial loss | Moderate (3) Medical treatment / high financial loss | Major (4) Hospital / large financial loss | Catastrophic (5) Death / massive financial loss |
| Likelihood | Almost Certain (5) Often occurs / once a week | Moderate (5) | High (10) | High (15) | Catastrophic (20) | Catastrophic (25) |
| | Likely (4) Could easily happen / once a month | Moderate (4) | Moderate (8) | High (12) | Catastrophic (16) | Catastrophic (20) |
| | Possible (3) Could happen or known it to happen / once a year | Low (3) | Moderate (6) | Moderate (9) | High (12) | High (15) |
| | Unlikely (2) Hasn't happened yet but could / once every 10 years | Low (2) | Moderate (4) | Moderate (6) | Moderate (8) | High (10) |
| | Rare (1) Conceivable but only on extreme circumstances / once in 100 years | Low (1) | Low (2) | Low (3) | Moderate (4) | Moderate (5) |