

PLANT RISK ASSESSMENT

PLANT:	MOBILE HYDRAULIC TRUCK CRANE
MANUFACTURER:	XCMG
MODEL:	QY25K-II
PLANT I.D. NO:	-
SERIAL NO:	005876
REGISTRATION NO.:	TBA
METHOD OF INSPECTION:	VISUAL & OPERATIONAL
LOCATION OF ASSESSMENT:	2 Heland Place, BRAESIDE
METHOD OF RISK CLASSIFICATION:	ALL RISKS CLASSIFIED AS HIGH
JOB NUMBER:	

No.	Hazard identification (Provide description of possible hazard)	Is there a risk? (Yes, No)	Where there is a risk, describe the proposed control measures to be implemented	Are the risk control measures practicable? (Yes, No)	When are the control measures to be implemented?
1	The plant operator(s) could be injured or injure others when operating the plant without sufficient training, instruction, supervision and information.	Yes	An Operator's Manual has been provided by the manufacturer. The plant operator(s) received sufficient training in safety operation of this plant and must hold an appropriately endorsed certificate of competency.	Yes	Prior to operation
2	Persons could be injured when adhering to a poor system of work in relation to the operation of plant.	Yes	All personnel should formulate and comply with a system of work adhering to the manufacturer's instructions at all times.	Yes	Prior to operation
3	Persons could be injured by the plant operating in poor conditions as a result of general wear and tear on components.	Yes	The plant is accompanied by a Maintenance record / log book. The operator(s) is / are to be instructed to check the plant for faults prior to commencing works each day and if they are serious, report them immediately, otherwise record them in the maintenance records logbook.	Yes	Prior to operation
4	Persons could be injured if the plant which is known to be faulty and unsafe is operated.	Yes	A "DANGER DO NOT USE" sign should be attached to the plant by an authorized person, signed and dated. The operator should be instructed that while such tags are attached to the machine it must not be used until the tag is removed by a qualified mechanic.	Yes	Prior to operation

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5	Persons could be injured if the operator of the plant is not familiar with the working environment.	Yes	The operator should be instructed to inspect the area where the plant is intended to be operated prior to works commencing and enquire if there are any site specific requirements to be observed.	Yes	Prior to operation
6	Persons could be injured if the operator is not aware of hazards and unsafe conditions which may result in accident or injury when operating the plant.	Yes	The operator should be trained in determining unsafe conditions and hazards that are relative to the plant's safe operation.	Yes	Prior to operation
7	Persons may be injured if the operator does not understand the plant they are operating.	Yes	The operator must be trained to fully understand the plant and its operating instructions. Operator must hold an appropriate certificate of competency to operate this plant.	Yes	Prior to operation
8	Persons could be injured if the operator performs duties which are beyond their responsibilities and capabilities.	Yes	The operator should be instructed not to carry out work that is outside their normal duties and report any matter of concern to their supervisor.	Yes	Prior to operation

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9	Persons could be injured if the plant was not confirmed to be safe in accordance with the requirements of the Statutory Authorities by testing.	Yes	The plant has been satisfactorily tested for compliance with the Australian Standards and OHS Plant Regulations. Appropriate documentation to be kept in Plant Files and copy of Plant Registration to be kept in machine.	Yes	Prior to operation
10	Persons could be injured if the plant has not been tested and inspected in accordance with manufacturer's instructions prior to works each day.	Yes	Instruct the operator or competent person to check and test the machine in accordance with the manufacturer's checklist and record the findings in the maintenance / logbook prior to commencing work.	Yes	Prior to operation
11	Persons could be injured if the plant has been modified from its original design.	Yes	The operator should be instructed that any modification to the plant should be approved by the manufacturer or some other suitably qualified engineer and that all relevant design information / computations must be retained and be available upon request by the appropriate authority.	Yes	Prior to operation
12	Persons could be injured if the controls and instruction signs and warning decals are damaged in a hostile environment.	Yes	Instruct the operator to cover and protect the controls identification signs and warning decals if the plant is left out in the weather or in a hostile environment.	Yes	Prior to operation

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13	Persons could be injured if the operator does not understand the instruction and warning plates and stickers mounted on the plant.	Yes	Ensure that all stickers, warning plates and instructions are clearly legible, and in English. International and Universal signs are acceptable with appropriate designs that comply with Australian Standards.	Yes	Prior to operation
14	Persons could be injured if a plant that is not operating as designed by the manufacturer is used.	Yes	The manufacturer prohibits such use. Instruct the operator to cease use of a malfunctioning plant and attach a "DANGER DO NOT USE" tag. Record the matter in the maintenance / logbook.	Yes	Prior to operation
15	Persons could be injured if a plant that has been tagged with a "DANGER DO NOT USE" tag is operated.	Yes	The manufacturer prohibits such use. A "DANGER DO NOT USE" tag should be attached to the plant by an authorized person, signed and dated. The operator should be instructed that while such a tag is attached to the machine it must not be used until the tag is removed by a qualified mechanic.	Yes	Prior to operation
16	Persons could be injured if a component of the plant fails or collapses.	Yes	The plant has been designed in accordance with a recognized published technical standard.	Yes	Prior to operation

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17	Persons may be injured if struck by the mobile crane.	Yes	All operators of the mobile crane must be instructed on speed limits to be adhered to and the use of warning devices. Mobile crane operations are to be isolated to prevent access of unauthorized persons. An audible alarm and flashing beacon must be fitted to the mobile crane.	Yes	Prior to operation
18	Persons could be injured if any of the safety devices are disabled.	Yes	The operator is to be instructed that safety devices are not to be disabled and must be checked each day prior to works commencing.	Yes	Prior to operation
19	Persons may be injured if they slip during access an aggress from the mobile crane.	Yes	The manufacturer has provided non-skid footplates and handholds on the mobile crane. The mobile crane must be clean of grease and oil at all times.	Yes	Prior to operation

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20	Persons could be injured if the operator endeavors to extend the use of the plant beyond its working limit.	Yes	The operator should be trained in the meaning of this chart, refer to it at all times and have a clear understanding of its use.	Yes	Prior to operation
21	Persons could be injured if the plant is started and / or operated by an unauthorized person.	Yes	Instruct all personnel that upon leaving the plant they should ensure that the plant is made safe and unable to be operated by unauthorized personnel.	Yes	Prior to operation
22	Persons could be injured while working upon or being close to moving mechanical parts while wearing loose fitting clothing.	Yes	Instruct the operator upon working the mechanical parts to wear close fitting clothing.	Yes	Prior to operation
23	Persons could be injured if the plant was being operated in a poorly lit environment.	Yes	Instruct the operator that they must ensure that they have absolute clear vision in a properly lit workplace at all times. Keep the windows clean at all times and obtain guidance from the dog man.	Yes	Prior to operation

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24	Persons could be injured if the operator is under the influence of alcohol or drugs.	Yes	Instruct the operator that operating the plant under the influence of alcohol or drugs is prohibited and a breach of company policy.	Yes	Prior to operation
25	Persons could be injured if the operator's performance is inhibited by poor health or medication with side effects.	Yes	Instruct the operator that they must report to a supervisor if they are suffering from poor health	Yes	Prior to operation
26	Persons could be injured if the operator's performance is inhibited by excessive fatigue.	Yes	Instruct the operator to report to their supervisor if they are suffering from excessive fatigue and their safe operating ability may be inhibited.	Yes	Prior to operation
27	Persons could be injured if the operator's handling of controls are abrupt or contain sudden actions.	Yes	Instruct the operator that they must start and stop any level operation in a gradual manner. Operation should be conducted smoothly and securely.	Yes	Prior to operation

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28	Persons could be injured if plant becomes uncontrollable while more than one operation is being carried out at the same time.	Yes	The operator should be instructed to use only compound operations when they may be carried out smoothly with no sudden change in speed, in a safe manner and the work areas and situation provides required level of safety for all staff.	Yes	Prior to operation
29	Persons could be injured if unauthorized persons, equipment or vehicles move into the working area.	Yes	Instruct the operator that the plant's working area is to be designated and barricaded to limit entry to authorized personnel only where practical or as per work site requirements.	Yes	Prior to operation
30	Persons could be injured if the operator has their attention diverted from their duties.	Yes	Instruct the operator that they should not drink, eat, read or otherwise divert their attention from the operations while operation the plant.	Yes	Prior to operation
31	Persons could be injured if tools or other items are left in the work area and foul access to the action of specific controls.	Yes	Instruct the operator to ensure that the work area is clean and tidy and any tools or other items are properly stowed at all times.	Yes	Prior to operation

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32	Persons could be injured if the plant is operated on surface which may not sustain its weight.	Yes	Instruct the operator to check the ground conditions or structure loadings with a supervisor before operating.	Yes	Prior to operation
33	Persons may be come into contact with loads or lifting equipment while operating on site.	Yes	Instruct all personnel to wear appropriate personal protective equipment whilst on site	Yes	Prior to operation
34	Persons could be injured if the plant is travelled in an area where space is limited on rough ground and sloping terrain.	Yes	Instruct the operator to be directed by a guide and travel carefully and slowly when moving the plant.	Yes	Prior to operation
35	Persons could be injured if the plant is parked improperly or on sloping terrain.	Yes	Instruct the operator that prior to parking or leaving the plant unattended the plant must be parked on suitable terrain and made safe.	Yes	Prior to operation

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36	Persons may be injured if struck by a moving machine.	Yes	The area where the plant is operating should be barricaded with limited access to authorized personnel only. All personnel should wear appropriate personal protective equipment.	Yes	Prior to operation
37	Persons may be injured or crushed between this plant and other equipment or plant.	Yes	All personnel are to wear appropriate personal protective equipment and to be aware of other plant and equipment in the work area.	Yes	Prior to operation
38	Persons may be injured or crushed if the plant tips or rolls over upon a poor surface.	Yes	The operator should be instructed to operate only on a solid level surface within the capacity and the recommended use of the plant.	Yes	Prior to operation
39	Persons could be injured by horseplay or inappropriate behavior.	Yes	All personnel are to be instructed to behave responsibly and not to indulge in any unwarranted actions.	Yes	Prior to operation

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40	Persons could be injured if personnel are day dreaming and not concentrating on the task.	Yes	All personnel are to be instructed to stay alert and concentrate on the works at all times.	Yes	Prior to operation
41	Persons could be injured if the plant slides in wet or slippery conditions.	Yes	All personnel should be instructed exercise caution during works with this plant. A suitable and safe work area should be designated for the location of this plant.	Yes	Prior to operation
42	Persons could be injured when the plant is moved.	Yes	The operator should be trained to look carefully prior to moving the plant. A suitable and safe route of travel should be designated and confirmed prior to moving the crane.	Yes	Prior to operation
43	Persons could be injured if the plant collides with other plant or equipment.	Yes	The operator should be instructed to travel at a safe distance from other plant and equipment when moving the plant. A suitable and safe route of travel / work area should be designated for the movement and operation of this crane. The work area / travel route should be isolated and barricaded to prevent the unauthorized access of plant and equipment.	Yes	Prior to operation

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44	Persons could have their hands injured while carrying out tasks on the plant.	Yes	Instruct all personnel to wear suitable personal protective equipment including gloves. All personnel to be competent.	Yes	Prior to operation
45	Persons could be injured if the plant was parked on a public road or place.	Yes	Instruct the operator to ensure that the plant is stowed safely and appropriate warning signs are set up surrounding the unit. The plant is to be made safe prior to leaving it unattended.	Yes	Prior to operation
46	Persons could be injured if the plant was parked at a public place or road at night.	Yes	Instruct the operator to ensure that the plant is parked safely with appropriate signage and warning decals around the unit.	Yes	Prior to operation
47	Persons could be injured if the plant damaged underground hazards such as gas, electricity and water pipes or other buried objects.	Yes	Instruct the operator to inspect the ground conditions where the plant is to be operated. Appropriate engineering documentation should be obtained from the supervisor where necessary to determine that the ground conditions are safe.	Yes	Prior to operation

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48	Persons could be injured by a lightning strike.	Yes	All personnel should be instructed to remain at a safe distance from the plant in the event of a lightning storm and make the plant safe. Retract the boom and cease works.	Yes	Prior to operation
49	Persons could be injured if the plant makes contact with live electrical conductors.	Yes	The operator should be instructed not to operate the plant near 'live' wires. Appropriate measures should be taken to adhere to the "NO GO ZONE" recommendations.	Yes	Prior to operation
50	Persons could be injured by live electrical conductors if the plant is parked in close proximity to them.	Yes	Instruct all personnel to adhere to the "NO GO ZONE" recommendations when parking the plant.	Yes	Prior to operation
51	Persons could be injured by the plant being set up or parked in close proximity to high power electromagnetic wave emitters e.g. radio or television transmitters.	Yes	Instruct all personnel to ensure that the site supervisor contacts the relevant authority or company and establishes safety prior to commencing works.	Yes	Prior to operation

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52	Persons may be injured or suffer suffocation by exhaust fumes when working in confined spaces.	Yes	Instruct the operators to refrain from working in confined spaces. Alternatively, ensure that adequate ventilation is provided or suitable equipment for task is used.	Yes	Prior to operation
53	Persons could be injured while operating the mobile crane from exhaust fumes.	Yes	The exhaust system must be properly maintained.	Yes	Prior to operation
54	Persons could be injured by contacting the exhaust system on the mobile crane.	Yes	Ensure all personnel are competent in the safe use of the mobile crane.	Yes	Prior to operation
55	Persons could be injured by unexpected movement of the mobile crane.	Yes	Instruct the operator to ensure that the mobile crane is made safe prior to leaving it unattended. Ensure that unauthorized personnel do not have access to the work area where the mobile crane is operating.	Yes	Prior to operation

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56	Persons could be injured by the failure of the mobile crane to sustain suspended loads.	Yes	Ensure that the mobile crane is regularly serviced and maintained by qualified personnel. The operator must conduct daily inspections of the forklift and record the results in the logbook. In the case of a fault detected the mobile crane must be tagged with a "DANGER DO NOT USE" tag until it is made safe for use.	Yes	Prior to operation
57	Persons could be injured due falling objects.	Yes	Ensure that all personnel wear suitable personal protective equipment during works with the mobile crane and that the work area is adequately barricaded and guarded.	Yes	Prior to operation
58	Persons could be injured by a parked mobile crane with the boom extended.	Yes	Instruct the operator to ensure that the mobile crane is parked with its boom retracted and the brake applied. The keys must be removed from the ignition and the plant made safe prior to leaving it unattended.	Yes	Prior to operation
59	Persons could be injured if maintenance personnel do not understand the workings of the plant.	Yes	Ensure that the operator refers to the load chart and does not exceed the crane's Maximum Rated Capacity under any circumstances. The load chart must be kept clean and legible at all times.	Yes	Prior to operation

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60	Persons could be injured if maintenance personnel do not understand the workings of the plant.	Yes	Only qualified personnel to maintain and service the plant. An operators and maintenance manual has been provided by the manufacturer. Service and maintenance personnel are to read and thoroughly understand the plant's operators instruction and service manual.	Yes	Prior to operation
61	Persons could be injured if maintenance personnel are not qualified and competent to undertake maintenance and repairs on the plant.	Yes	Only qualified and competent personnel are to undertake repairs and maintenance on the plant.	Yes	Prior to operation
62	Persons could be injured if repairs and maintenance are conducted whilst the plant is operating.	Yes	Maintenance and repairs personnel are to be instructed not to work on the plant while it is operating.	Yes	Prior to operation
63	Persons could be injured if repairs and maintenance were conducted whilst the engine was running.	Yes	The engine is to be stopped when maintenance and repairs are being undertaken on the plant. A notice or Danger Do Not Start tag should be put in place advising that maintenance and repairs are being undertaken on the plant.	Yes	Prior to operation

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64	Persons could be injured if the plant becomes unstable due to its supporting surface collapsing or deteriorating during repairs and maintenance.	Yes	Instruct the operator to park the plant in a safe location and if there is any doubt to seek the advice from their supervisor or an engineer.	Yes	Prior to operation
65	Persons could be injured if the plant is disassembled.	Yes	Ensure that all machine guards are in place before using the equipment in any way.	Yes	Prior to operation
66	Persons could be injured if maintenance and repairs are being conducted on an incline.	Yes	Instruct the operator that the plant should be set u on a firm and level ground for service and general maintenance. Should this not be practical as in the case of a repair the plant must be made as safe as possible.	Yes	Prior to operation
67	Persons could be injured if the plant is not properly maintained and serviced.	Yes	A system should be in place for maintenance and repair of the plant. Only qualified and competent personnel to undertake maintenance and repair on the plant.	Yes	Prior to operation

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68	Persons could be injured if electrical wiring is modified.	Yes	Instruct the operator not to modify or permit other personnel to modify the electrical wiring within the plant unless authorised.	Yes	Prior to operation
69	Persons could be injured if persons are smoking near the plant.	Yes	All personnel are to be instructed to refrain from smoking near the plant. "NO SMOKING" signs should be attached to the plant.	Yes	Prior to operation
70	Persons could be injured in the event of a fire.	Yes	Instruct all personnel on how to use and maintain the fire extinguisher.	Yes	Prior to operation
71	Persons may be injured if there is a fuel leak in the fuel system and the mobile crane is operated.	Yes	Instruct the operator to undertake daily checks prior to operating the mobile crane each day and record any faults. If a fuel leak is detected, the mobile crane is not to be operated. A "DANGER DO NOT USE" tag must be attached to the mobile crane and the fault must be reported immediately.	Yes	Prior to operation

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72	Persons could be injured or affected by exhaust fumes when operating the plant in confined spaces.	Yes	Instruct operators not to overstay while working in a confined space unless a special supply of filtered air is provided or adequate ventilation is in place.	Yes	Prior to operation
73	Persons could be injured if tyres were damaged or punctured on the mobile crane and the crane was operated.	Yes	Instruct the operator to ensure that daily checks are conducted on the mobile crane. Check the tyres for damages, nails, glass or other objects.	Yes	Prior to operation
74	Persons could be affected and made unwell if operating the plant in a poorly ventilated area.	Yes	All personnel to be notified not to start the plant in a poorly ventilated area.	Yes	Prior to operation
75	Persons could be injured if the plant was being cleaned with substances that are flammable.	Yes	All personnel to be instructed not to use flammable substances to clean the machine.	Yes	Prior to operation

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76	Persons could be injured if tools, rags, etc are left in the engine compartment.	Yes	All personnel to be instructed not to leave any tools, rags, etc on the engine compartment. The operator should check the engine compartment after work has been conducted there-in.	Yes	Prior to operation
77	Persons could be injured if the plant is started for use while a warning tag is attached.	Yes	The operator should be instructed not to start or use the plant when a warning tag is attached.	Yes	Prior to operation
78	Persons could be injured if the plant is started while a control device is engaged.	Yes	The operator should be instructed not to start the plant until they have checked that all levers and switches are in the neutral, off or safe position to start plant.	Yes	Prior to operation
79	Persons could be injured by unintended movements of plant by operating the wrong controls.	Yes	Instruct the operator to read the instruction manual and thoroughly understand prior to using this plant. All operators are to hold an appropriate Certificate Of Competency for operating this plant.	Yes	Prior to operation

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80	Persons could be injured if the plant was operated in inclement weather.	Yes	Instruct all personnel to refer to the Operators Manual and or AS250.1 "Weather Conditions" in the case of inclement weather. If Operators Manuals and or AS250.1 dictate work should cease <u>All</u> Plant to be left in a Safe Condition prior to ceasing operation.	Yes	Prior to operation
81	Persons could be injured if an adequate work area was not designated for the plant and personnel.	Yes	Instruct all personnel not to commence works until an adequate work area has been designated for the plant and personnel.	Yes	Prior to operation
82	Persons could be injured if crane loads are not slung properly or the operations of the crane are not correctly directed.	Yes	A mobile crane operator must be directed by a suitably qualified person at all times. All crane loads must be prepared and slung by a suitably qualified person. Such a person must be a holder of an appropriate Certificate Of Competency.	Yes	Prior to operation
83	Persons could be injured or injure others if they conduct welding on load bearing parts without being authorized to do so.	Yes	Only authorized, competent and qualified persons may conduct welding on load bearing parts.	Yes	Prior to operation

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84	Persons could be injured if unauthorized modifications are undertaken on the mobile crane.	Yes	All personnel to be instructed that unauthorized modifications to the plant are not to be undertaken under any circumstances.	Yes	Prior to operation
85	Could be injured or injure others if they fail to adhere to the manufacturer's instructions.	Yes	All personnel are to be instructed to adhere to manufacturer's instructions at all times. All personnel should be familiar with the manufacturer's instructions prior to working with this plant.	Yes	Prior to operation
86	Persons could be injured or injure others if the brakes do not hold and the mobile crane moves.	Yes	Ensure that the operator conducts checks on the plant prior to works commencing each day. Service and maintenance personnel are to inspect the brakes on the plant during routine servicing and maintenance.	Yes	Prior to operation
87	Persons could be injured if loose loads fell upon them.	Yes	Ensure that all loads are safely prepared and slung by a suitably qualified person. Ensure that work area is adequately guarded and barricaded. The suitably qualified person must hold an appropriate Certificate Of Competency.	Yes	Prior to operation

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88	Persons could be injured or injure others if they slip from a soiled machine.	Yes	Ensure that the plant is kept clean at all times and personnel are to refrain from climbing on the plant unless necessary and wearing suitable personal protective equipment.	Yes	Prior to operation
89	Persons could be injured by the failure of the crane to sustain loads.	Yes	Ensure that routine inspections are undertaken and maintenance records are kept. The operator must be instructed that loads should not be lifted over persons. All brakes must be tested and checked as a matter of routine daily inspections.	Yes	Prior to operation
90	Persons could be injured by an overloaded crane.	Yes	A rated capacity chart is provided in the crane cabin. Instruct the operator to refer to the load chart at all times during works and to understand its meaning. The operator must never exceed the rated capacity of the crane. A rated capacity indicator may be installed to sound and warn the operator prior to an overload situation.	Yes	Prior to operation
91	Persons could be injured if the boom is not restricted in its backward motion.	Yes	Crane operators are to be suitably trained and competent in the safe and proper use of this crane.	Yes	Prior to operation

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92	Persons could be injured if the crane or load collides with people or objects in the work area.	Yes	Ensure that the work area is adequately barricaded and guarded to prevent unauthorized access. All personnel to be competent and trained and wear suitable personal protective equipment.	Yes	Prior to operation
93	Persons could be injured and suffer hearing loss due to defective noise insulation or inadequate personal protective equipment.	Yes	Personnel to undertake checks each day to ensure that noise insulation on the plant is adequate. All personnel to wear suitable hearing protection, (ear muffs, ear plugs) during works.	Yes	Prior to operation
94	Persons could be injured if the mobile crane skidded in wet or slippery conditions.	Yes	Ensure that appropriate tyres are installed to suit the workplace. The driver must be instructed to drive slowly and cautiously at all times during works.	Yes	Prior to operation
95	Persons could be injured whilst the crane is slewing or reversing.	Yes	Instruct the operator to ensure that they have clear visibility during works. The operator must be instructed by a suitably qualified person who holds and appropriate Certificate Of Competency at all times.	Yes	Prior to operation

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96	Persons may be injured if the crane operates in extreme wind conditions.	Yes	Instruct the operator to refer to Operators Manual and or AS2550.1 "Weather Conditions" for safe operating guidelines. Where conditions exceed manufacturers recommendation operation is to cease.	Yes	Prior to operation
97	Persons may be injured whilst the crane is travelling on public roads or places.	Yes	Instruct the driver to adhere local road regulations and adhere to the speed limits. The driver is to take extreme caution when driving the crane of public roads and be aware of other vehicles and pedestrians.	Yes	Prior to operation
98	Persons may be injured when two cranes work together and they collide.	Yes	Ensure that adequate planning is undertaken prior to works commencing and that signaling has been arranged. The works area must be barricaded and guarded to prevent unauthorized access and all personnel must wear suitable personal protective equipment.	Yes	Prior to operation
99	Persons may be injured or injure others if they fail to adhere to the procedures formulated for use of this plant.	Yes	All personnel should be instructed, trained and familiar with the procedures in place for use of this plant. Refer to Operators Manual at ALL times. Personnel who have any doubts as to the procedure in place should consult their supervisor.	Yes	Prior to operation

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100	Persons could be injured or injure others if their hands slipped off the controls.	Yes	Instruct all personnel associated with the use of the plant to ensure that their hands are dry at all times.	Yes	Prior to operation
101	Persons could injure their feet if loose items fell on them	Yes	Instruct all personnel to wear suitable safety footwear at all times.	Yes	Prior to operation
102	Persons could be injured if the operator's vision is impaired by sunlight or bright lights in close proximity.	Yes	Instruct all personnel to wear sunglasses or some other form of eye protection.	Yes	Prior to operation
103	Persons could be injured if distracted by noise.	Yes	Instruct personnel to wear ear muffs or some other form of suitable hearing protection.	Yes	Prior to operation

No.	Hazard identification (Provide description of possible hazard)	Is there a risk? (Yes, No)	Where there is a risk, describe the proposed control measures to be implemented	Are the risk control measures practicable? (Yes, No)	When are the control measures to be implemented?
104	Personnel may be injured or injure others by not being visible whilst on the work site.	Yes	Instruct all personnel to wear a high visibility reflective vest or some other form of suitable garment whilst on work site and or areas where equipment is operated.	Yes	Prior to operation
105	Persons could injure their hands or other parts of their body whilst carrying out tasks on the plant.	Yes	Instruct all personnel to wear suitable personal protective equipment whilst working on the plant and to be cautious at all times during works.	Yes	Prior to operation
106	Persons could be injured if there was an earthquake during works.	Yes	Persons should be instructed to step away from the plant and cease works during such an event.	Yes	Prior to operation
107	Persons could be injured if more than one person is in the crane 'operation' cabin during use.	Yes	Instruct the operator not to accept passengers whilst the crane is operating. Passengers are limited to Road Travel ONLY in the crane cabin where correct seating and safety equipment are provided.	Yes	Prior to operation

No.	Hazard identification (Provide description of possible hazard)	Is there a risk? (Yes, No)	Where there is a risk, describe the proposed control measures to be implemented	Are the risk control measures practicable? (Yes, No)	When are the control measures to be implemented?
108	Persons could be injured by a mobile crane colliding with plant and equipment.	Yes	The driver must be instructed to drive at a safe distance from other vehicles and always remain in constant control. The operator is to ensure that they have clear vision during works and the works area must be barricaded and guarded prior to works commencing. Adequate planning is essential to ensure that sufficient area has been designated for the mobile crane and its safe use.	Yes	Prior to operation
109	Persons could be injured if the operation of the plant was inhibited due to poor housekeeping.	Yes	Instruct the operator to keep the crane cabin and controls clean and tidy at all times. Do not leave tools, parts or objects in the area of the operator's seat.	Yes	Prior to operation
110	Persons could be injured if the crane overloaded or tipped over in adverse working configuration.	Yes	Instruct the operator to check the Load Moment Safety System operation to ensure it is in safe operating condition. Instruct the operator to conduct daily pre-operational checks of the crane and record the findings in the logbook.	Yes	Prior to operation
111	Persons could be injured if they attempted to access or egress the crane whilst it is operating.	Yes	Instruct the operator under no circumstances to leave the crane unattended whilst it is operating. Secure the works area to prevent unauthorized access and ensure that all personnel not to attempt to climb onto or off the crane whilst it is operating. Always wait until the crane is at rest before access or egress is attempted.	Yes	Prior to operation

No.	Hazard identification (Provide description of possible hazard)	Is there a risk? (Yes, No)	Where there is a risk, describe the proposed control measures to be implemented	Are the risk control measures practicable? (Yes, No)	When are the control measures to be implemented?
112	Persons may be injured if there is a mechanical or control failure of the crane.	Yes	Ensure that a suitable system is in place for maintenance and repair of the crane. Instruct the operator to conduct daily pre-operational checks of the crane and record the findings in the logbook provided. In the case of a fault detected a "DANGER DO NOT USE" tag must be fixed to the crane and the crane is not to be operated until a qualified mechanic has repaired the fault and the crane is safe for use.	Yes	Prior to operation
113	Persons may be injured if they slip, trip or fall during access and egress from the crane.	Yes	Ensure that all guards and covers are in place and are clean. Ensure that steps, hand grips and the floor surface is free of dirt, ice, snow and grease. Instruct the operator to face towards the crane and use the hand grips and steps provided when climbing into or out of the crane cabin.	Yes	Prior to operation
114	Persons could be injured if the engine was leaking oil and personnel were smoking in the works area.	Yes	Instruct the operator and maintenance personnel to keep the engine clean and tidy and remove any rags or tools used during maintenance and inspection. All personnel are to refrain from smoking during works. Instruct the operator to conduct daily pre-operational checks and if oil leaks are detected to record the problem in the logbook and have the problem repaired immediately.	Yes	Prior to operation

No.	Hazard identification (Provide description of possible hazard)	Is there a risk? (Yes, No)	Where there is a risk, describe the proposed control measures to be implemented	Are the risk control measures practicable? (Yes, No)	When are the control measures to be implemented?
115	Persons may be injured if the operator attempts to start the engine whilst not being seated in the crane cabin.	Yes	Instruct the operator that they must be seated in the crane cabin prior to starting the engine. Under no circumstances is the crane to be started whilst not being seated in the operator's seat.	Yes	Prior to operation
116	Persons may be injured if the crane tips due to poorly set up outriggers.	Yes	Ensure that outriggers are set up on firm and level ground. Blocking is to be used where necessary in the correct manner and confirm that ground conditions are suitable prior to works commencing.	Yes	Prior to operation
117	Persons may be injured if the outriggers are set up on poor or weak ground.	Yes	Ensure that outriggers are set up on firm and level ground. Blocking is to be used where necessary in the correct manner and confirm that ground conditions are suitable prior to works commencing.	Yes	Prior to operation
118	Persons may be injured if the outriggers are set up near road shoulders or excavations.	Yes	Ensure that adequate planning is undertaken to determine a safe and suitable location for the crane to be set up. Obtain confirmation from site management or engineers that the ground conditions are safe and suitable.	Yes	Prior to operation

No.	Hazard identification (Provide description of possible hazard)	Is there a risk? (Yes, No)	Where there is a risk, describe the proposed control measures to be implemented	Are the risk control measures practicable? (Yes, No)	When are the control measures to be implemented?
119	Persons could be injured if the outriggers are set up where there are buried underground pipes or cables.	Yes	Ensure that confirmation of the ground conditions and the existence of any underground pipes, cables or objects is obtained prior to setting up the crane.	Yes	Prior to operation
120	Persons may be injured if the outriggers are set up with poor or incorrect blocking.	Yes	Ensure that all personnel are trained and competent to perform the works. Ensure that the correct and suitable blocking is used for the crane, the ground conditions and the works.	Yes	Prior to operation
121	Persons could be injured if the crane tips due to the outriggers being set on uneven ground.	Yes	Prior to setting up the crane ensure that ground conditions are suitable. Use blocking or supports where necessary to ensure the ground is level, stable and safe for works to commence.	Yes	Prior to operation
122	Persons may be injured if the crane tips over due to incorrectly set outrigger extensions to the width specified in the rated lifting load capacity table.	Yes	Instruct the operator to refer to the rated lifting load capacity table at all times and to check the outrigger extension width. The operator must check that the outriggers are extended to the width specified in the rated lifting load capacity table prior to commencing works.	Yes	Prior to operation

No.	Hazard identification (Provide description of possible hazard)	Is there a risk? (Yes, No)	Where there is a risk, describe the proposed control measures to be implemented	Are the risk control measures practicable? (Yes, No)	When are the control measures to be implemented?
123	Persons may be injured during setting of outriggers.	Yes	Instruct the operator to refer to the operators manual all times and to check that ALL staff are clear of outrigger extension beams during set up for operation. The operator must control all operations and instruct staff, and check that the outriggers are extended to the width specified in the rated lifting load capacity table prior to commencing works in a safe manner. ALL staff must be in FULL view of operator at ALL times during operation and set up.	Yes	Prior to operation
124	Persons may be injured if the safety devices are deliberately disabled for working with excessive load or over hoist.	Yes	Instruct all personnel that under no circumstances are safety devices to be disabled during works. Maintenance personnel must ensure that safety devices are functional following any maintenance or repairs to the crane.	Yes	Prior to operation
125	Persons may be injured when swinging a load or reduced stability from sudden changed in speed from switching from compound to single operation.	Yes	Instruct the operator to proceed cautiously with compound operations. The controls are to be worked slowly and smoothly with no sudden changes of speed when changing from compound to single operations.	Yes	Prior to operation

No.	Hazard identification (Provide description of possible hazard)	Is there a risk? (Yes, No)	Where there is a risk, describe the proposed control measures to be implemented	Are the risk control measures practicable? (Yes, No)	When are the control measures to be implemented?
126	Persons may be injured if the cranes tip over as a result of using counterweights which are not specified.	Yes	The manufacturer prohibits the addition of counterweights beyond the specification. Instruct all personnel to refrain from using counterweights which do not conform to the specification.	Yes	Prior to operation
127	Persons may be injured when lifting long and unstable loads.	Yes	Instruct personnel to tie a guide rope to each end of the load and hold the lifting stable. All personnel are to wear suitable PPE.	Yes	Prior to operation
128	Persons may be injured if a load drops due to the crane being unattended.	Yes	Instruct the operator never to leave the crane unattended whilst a load is suspended. The operator must be seated in the operator S cabin whilst the crane is operating and do not leave the crane unattended unless it is first made safe.	Yes	Prior to operation
129	Persons may be injured if a load drops due to insecure slings or hook.	Yes	Instruct all personnel to ensure that correct equipment is used for the task and that all slings and hooks are secured, the right size, not damaged and arranged so as not to tangle or interfere with each other.	Yes	Prior to operation

No.	Hazard identification (Provide description of possible hazard)	Is there a risk? (Yes, No)	Where there is a risk, describe the proposed control measures to be implemented	Are the risk control measures practicable? (Yes, No)	When are the control measures to be implemented?
130	Persons may be injured if there is an overload due to increase flexure of the boom when a load is lifted suddenly.	Yes	Instruct all personnel to ensure that correct equipment is used for the task and that all slings and hooks are secured, the right size, not damaged and arranged so as not to tangle or interfere with each other.	Yes	Prior to operation
131	Persons may be injured if a load is lifted off the ground by derricking or extending the boom.	Yes	The manufacturer prohibits such activity. Ensure that the operator is trained and holds an appropriate Certificate Of Competency to operate this crane.	Yes	Prior to operation
132	Persons may be injured if a load drops as a result of being held aloft for a long period by the brake alone.	Yes	Instruct the operator to create a drop zone & ensure all personnel are aware of the potential danger of a suspended load.	Yes	Prior to operation

No.	Hazard identification (Provide description of possible hazard)	Is there a risk? (Yes, No)	Where there is a risk, describe the proposed control measures to be implemented	Are the risk control measures practicable? (Yes, No)	When are the control measures to be implemented?
133	Persons may be injured when slewing with a load or dropping a load.	Yes	Instruct the operator to be guided by a suitably qualified person. The works area must be guarded and or barricaded to prevent unauthorized access. Suitably qualified person must hold a certificate of competency. All personnel must wear suitable personal protective equipment.	Yes	Prior to operation
134	Persons may be injured if the wire rope is entangled during slewing or hoisting.	Yes	Instruct the operator to ensure they have clear vision at all times and to be guided by a suitably qualified and certified person. Ensure that the works area has been designated prior to works commencing to ensure safe operation of the crane.	Yes	Prior to operation
135	Persons may be injured if the hook is over hoisted.	Yes	Instruct the operator never to drag a load diagonally or drag it towards the crane. The operator must follow signals given by the dog man and adhere to procedures.	Yes	Prior to operation
136	Persons may be injured if the hook is over hoisted.	Yes	Instruct the operator to refrain from over hoisting the hook.	Yes	Prior to operation

No.	Hazard identification (Provide description of possible hazard)	Is there a risk? (Yes, No)	Where there is a risk, describe the proposed control measures to be implemented	Are the risk control measures practicable? (Yes, No)	When are the control measures to be implemented?
137	Persons may be injured if the wire rope becomes entangled on the winch drum.	Yes	When unwinding the hook, ensure that it is not unwound so far so that it touches the ground. All personnel are to be competent and trained in the works.	Yes	Prior to operation
138	Persons may be injured if the crane tips as a result of the Main Hoist and the Auxiliary Hoist being used at the same time.	Yes	All operators are to be familiar with and understand the manufacturer's operating instructions prior to operating this crane. Safe work practice must be followed at all times.	Yes	Prior to operation
139	Persons may be injured when additional stress is exerted if extending the boom with a load.	Yes	Instruct the operator to ensure that all caution is taken when extending a boom with a load extended on it. The operator must confirm the boom / extension / retraction sequence and always control boom extension / retraction in the correct sequence. The manufacturer prohibits lifting a load with the boom extended in an importer sequence.	Yes	Prior to operation
140	Persons may be injured if the boom of the crane is used to push or pull objects.	Yes	The manufacturer prohibits such use. All operators are to be familiar with and understand the manufacturer's operating instructions prior to operating this crane.	Yes	Prior to operation

No.	Hazard identification (Provide description of possible hazard)	Is there a risk? (Yes, No)	Where there is a risk, describe the proposed control measures to be implemented	Are the risk control measures practicable? (Yes, No)	When are the control measures to be implemented?
141	Persons may be injured if the weight of a load is unknown and is lifted.	Yes	Ensure that the weight of all loads is known to prior to lifting with a crane. Instruct the operator not to lift an unknown load until adequate information is supplied for calculation of load weight.	Yes	Prior to operation
142	Persons may be injured when the crane is slewing due to slewing drift.	Yes	Instruct the operator to always apply the slewing brake once slewing is completed.	Yes	Prior to operation
143	Persons may be injured if the crane tips over from centrifugal force created by rapid slewing and stopping with a suspended load.	Yes	Instruct the operator to be aware of centrifugal force when slewing. The operator must slew slowly and gradually stop to prevent accident or injury. The manufacturer inhibits careless slewing.	Yes	Prior to operation
144	Persons may be injured if the Load Moment Safety System is incorrectly set for operation of crane.	Yes	Instruct the operator to set the working configuration correctly according to the actual work to be done.	Yes	Prior to operation

No.	Hazard identification (Provide description of possible hazard)	Is there a risk? (Yes, No)	Where there is a risk, describe the proposed control measures to be implemented	Are the risk control measures practicable? (Yes, No)	When are the control measures to be implemented?
145	Persons could be injured if more than one crane is used to lift a load.	Yes	Ensure that procedures are implemented and are adhered to at all times. A competent signaler is to be designated and operators are to take due caution during works. AS1418/5 to apply.	Yes	Prior to operation
146	Persons may be injured if the crane is maintained or serviced by unauthorized persons.	Yes	Ensure that only qualified and authorized persons service and maintenance the crane. Maintenance personnel are to refer to the manufacturer's manual for service and maintenance requirements.	Yes	Prior to operation
147	Persons may be injured whilst the crane is being serviced or repaired	Yes	Ensure that the works area is barricaded and or guarded with signage to indicate that maintenance is being undertaken. Only authorized personnel are to undertake service and maintenance on this crane. All personnel are to be competent and trained and wear suitable personal protective equipment.	Yes	Prior to operation
148	Persons may be injured if they fall from heights during works.	Yes	Ensure that all personnel wear suitable personal protective equipment, are competent and trained are working at heights. The works area is to be adequately barricaded and guarded to prevent unauthorized access and all personnel are to adhere to procedures at all times.	Yes	Prior to operation

No.	Hazard identification (Provide description of possible hazard)	Is there a risk? (Yes, No)	Where there is a risk, describe the proposed control measures to be implemented	Are the risk control measures practicable? (Yes, No)	When are the control measures to be implemented?
149	Persons may be injured by contacting hot engine parts or by explosion induced by gas from batteries during service and maintenance.	Yes	Ensure that when service and maintenance is being undertaken the battery cable is detached and the engine is allowed to cool before maintenance is conducted. All service and maintenance personnel are to be competent and trained to perform works.	Yes	Prior to operation
150	Persons may be injured if the crane is not correctly set up and operated.	Yes	All personnel are to adhere to procedures at all times and be competent to perform works. If any doubt exists consult supervisor.	Yes	Prior to operation
151	Persons may be injured during "pack up" procedure.	Yes	All personnel are to be instructed by person in charge (Operator of Crane) on process and procedure. ALL personnel are to be instructed on the "Crush Zone" hazards involving outrigger assemblies. All personnel are to be in FULL view of operator at ALL times. If personnel move out of line of vision, ALL operations to STOP immediately.	Yes	Prior to operation