

Armquest Industrial Services crane risk assessment (13715)

Client: Dragonfly Contracts Ltd

Site: Blackfriars House, St Mary's Parsonage, Manchester, M3 2JA

Risk rating: hazard x probability

Hazard: major= 5 fatal = 4 medium = 3 moderate = 2 low = 1

Probability: definite = 5 high = 4 medium = 3 moderate = 2 low = 1

Project: crane to lift & position roof steels etc

Job date: 8am, Saturday 18th June 2022 Duration 2 days

Access/egress from site

Hazard					Control Measures			
Details	Persons At Risk	Max Effect	Proba-bility	Risk Rating		Max Effect	Probability	Final risk rating
Crane & delivery/support vehicles coming into contact with people, buildings or other plant etc	All	4	4	16	Access to and from site for all vehicles will be controlled by a banksman at all times Dragonfly/Armquest will separate pedestrians /other workers from the working area whilst vehicles are manoeuvring in & out of lifting area Full PPE to be worn at all times and banksman/authorised personnel to ensure operator is aware of your presence Bruntwood vehicle access routes to be adhered to which will be explained at site induction	4	1	4

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Positioning of crane

					Control Measures			
Details	Persons At Risk	Max Effect	Probability	Risk Rating	Details	Max Effect	Probability	Final risk rating
Toppling of crane/unstable ground etc Underground services, overhead cables, recent excavations, cellars, pits and voids etc Striking scaffolds, buildings etc.	All	5	4	20	Dragonfly are to provide good level hard standing suitable to accept the ground loadings specified in the method statement Dragonfly management to assist & ensure that the crane is positioned clear of underground services/voids etc that have been identified. Crane is to be re-sited or Dragonfly will request Armquest to provide suitable mats to reduce outrigger loads. All nonessential personnel are to be restricted from entering the lifting area	5	1	5

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Setting up of cranes

Hazard					Control Measures			
Details	Persons At Risk	Max Effect	Probability	Risk Rating	Details	Max Effect	Probability	Final risk rating
Stability of crane, collapse of ground beneath outriggers and wheels	Operator and all persons in area	5	4	20	Only trained and qualified personnel will rig, guide and operate cranes (i.e. CPCS card holders) All rigging/setting up will be carried out to manufacturers recommendations and supervised by the operator Dragonfly to provide good level hard standing suitable to accept the ground loadings specified in the method statement Dragonfly management to assist & ensure that the crane is positioned clear of underground services/voids etc that have been identified. Nonessential personnel to be excluded from the working area by Dragonfly/Armquest. Ensure ballast/tail swing slewing arc is unobstructed	5	1	5

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Overhead cables (none present in this area)

Hazard					Control Measures			
Details	Persons At Risk	Max Effect	Proba-bility	Risk Rating	Details	Max Effect	Probability	Final risk rating
Personal injury, damage to crane or surrounding property	All site operatives/other workers where applicable	5	3	15	Lifting operation to be carried out as per BS 7121, safe use of cranes and current LOLER regulations. Work will only continue only when suitable guidance has been gained	5	1	5

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Failure of crane or lifting equipment

Hazard					Control Measures			
Details	Persons At Risk	Max Effect	Probability	Risk Rating	Details	Max Effect	Probability	Final risk rating
Failure of equipment causing collapse or load spill	Operators and all persons in area	5	3	15	Ensure all documentation complies with LOLER and is current Visual inspection of lifting equipment is carried out prior to use Only trained and qualified personnel will rig, guide and operate crane (i.e. CPCS card holders) Slings/signallers will be CPCS qualified to carry out required duties Non-essential personnel to be excluded from the working area by Dragonfly/Armquest. All required PPE will be worn at all times	5	1	5

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Inclement/adverse weather

Hazard					Control Measures			
Details	Persons At Risk	Max Effect	Probability	Risk Rating	Details	Max Effect	Probability	Final risk rating
High winds, lightning, frosty or snow conditions	All	5	3	15	Dragonfly/Armquest will obtain a detailed weather report prior to crane arriving on site The manufacturers recommendations for wind speeds will be followed at all times and allowances made for the loads being lifted In the event of localised conditions worsening work will stop until a safe system of work can be maintained. Crane is to be made safe by retracting jibs a per the manufacturers recommendations for unattended cranes Wind speed to be checked using anemometer, if fitted.	5	1	5

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Load spill/collapse

Hazard					Control Measures			
Details	Persons At Risk	Max Effect	Probability	Risk Rating	Details	Max Effect	Probability	Final risk rating
Sling failure, unsuitable lifting points for crane lifting or operator error	All	5	3	15	Only competent trained persons to guide, sling loads and operate crane (i.e. CPCS card holders). Use only certified/tested equipment all within capacity limits Dragonfly have supplied lifting details/arrangements for all specialist equipment lifts All required PPE to be worn at all times.	5	1	5

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Loading / unloading vehicles

Hazard					Control Measures			
Details	Persons At Risk	Max Effect	Probability	Risk Rating	Details	Max Effect	Probability	Final risk rating
Trapping or crushing, falls from heights	Slings/riggers transport drivers	4	3	12	Use only competent trained persons (i.e. CPCS card holders). Use only certified/tested equipment Armquest to ensure loaded vehicles have sufficient access to unload safely All required PPE will be worn at all times Armquest will exclude all nonessential personnel from the area. Inertia reel and harness to be used on all open vehicles when there is no edge protection (see safety harness section page 13) Hand lines to be used to control loads	4	1	4

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Manual handling

Hazard					Control Measures			
Details	Persons At Risk	Max Effect	Probability	Risk Rating	Details	Max Effect	Probability	Final risk rating
Injury to hands feet and back	Crane operator & slingers/riggers	2	3	6	Use only competent trained persons (i.e. CPCS card holders). Use only certified equipment Use mechanical means where possible Appropriate PPE shall be worn at all times. Use shall be made of kinetic/team lifting techniques. Suitable periods of work and rest will be planned into the operation to prevent fatigue	2	1	2

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Use of Ladders

Hazard					Control Measures			
Details	Persons At Risk	Max Effect	Probability	Risk Rating	Details	Max Effect	Probability	Final risk rating
Falls, slipping, falling objects	All	5	4	20	Ladder permit to be obtained prior to commencement Ladder must only be used as a last alternative if no other method is practicable Ground must be firm and level Ladders must be in good order All ladders must be of sufficient length to extend 1.0 metres above the step off point The ladder must be set at the correct angle of 75 ° Ladders must be securely lashed or footed at all times. Overreaching from ladders will be avoided	5	1	5

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Other workers/public interface (if applicable)

Hazard					Control Measures			
Details	Persons At Risk	Max Effect	Probability	Risk Rating	Details	Max Effect	Probability	Final risk rating
Other workers/operatives entering into the working area	All	5	3	15	Armquest are to secure lifting/working area with suitable barriers.	5	1	5
Other workers/operatives suffering injury					The lifting operation will be halted if any other workers enter the lifting area.			
					Dragonfly will liaise with Bruntwood management to ensure suitable alternative routes are provided for other workers.			

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Lifting/moving equipment

Hazard					Control Measures			
Details	Persons At Risk	Max Effect	Probability	Risk Rating	Details	Max Effect	Probability	Final risk rating
Equipment failure, Incorrect slinging, Incorrect use, damage to equipment, Cutting, bruising of hands. Crush injuries	All	4	3	12	All lifting gear will have relevant test certification and inspection certificates in order and available for inspection All lifting gear will be clearly marked with identity number and WLL and be visually inspected prior and after use All lifting gear will be protected from sharp edges All items of equipment to be operated/used within their capacities/safe working loads When attached all lifting/moving gear will be checked for correct application/security prior to lifting & fixed lifting points used where provided	4	1	4

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Use of safety harness

					Control Measures			
Details	Persons At Risk	Max Effect	Probability	Risk Rating	Details	Max Effect	Probability	Final risk rating
Equipment failure Anchor point failure Personnel striking an object when falling Overloading harness/inertia reel	All	5	4	20	Safety harness & inertia reel to be inspected by competent person prior to each use Harness & inertia reel must have current certification (max 6 months) Inertia reel & harness must be used within manufacturers tolerances (max 40 degrees out of vertical to avoid excessive swinging if fall occurs) Anchor point must be capable of carrying impact loading if fall occurs Harness/Inertia reel product training required Must be used in compliance with manufacturers wll & instructions Inertia reel must be clear of obstructions & sharp edges	5	1	5

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Site Specific Risks

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All risks that are applicable to the site where the work is to be carried. Lack of knowledge of the working area due to unfamiliarity	All	5	5	25	All personnel are to be advised by Dragonfly/Bruntwood of any potential hazard likely to cause injury or create a hazard that is likely to impact on this lifting operation and the personnel carrying out this operation. Dragonfly shall produce a separate risk assessment taking into account all aspects of this assessment and advise the appointed person accordingly. This assessment will be given to the Appointed person prior to the lifting operation and discussed with the lift supervisor during the sites pre lift induction	5	1	5

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Control of crane

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Damage to crane and buildings. Overturning.	All on site	5	3	15	Only trained slinger/signallers to communicate with the crane operator during lifting operations (i.e. CPCS card holders). Only hand signals in line with BS7121 will be used Where crane operator's vision is obstructed/impeded 2-way radios or more than one signaller will be used.	5	1	5