

Appendix A – to form Part of the Instruction Manual

Risk Control Measures & Risk Assessment for Identified Hazards



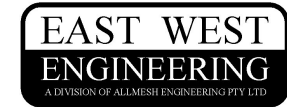
Equipment Type & Description: Type GB-CM Gas Cylinder Storage Cage Sheet: 1 of 15

Operation	Hazards Identified	Risk Assessment	Risk Control Measures in Place	Risk Control In Place (Date)
1. Crane Operational Safety Pre-Checks.	a) Unsafe use of Crane resulting in Cage, and/or items shifting & falling from height and striking Personnel and/or objects.	<ul style="list-style-type: none"> • Serious Risk to Personnel. • Moderate Risk to Operator. 	<ul style="list-style-type: none"> - The Crane has been duly commissioned & all lifting apparatus appropriately marked in accordance with AS 1418. - Pre-operational inspections (in accordance with AS 2550.1), to be carried out before each shift – Crane taken out of service if any risks or malfunctions are found. These MUST be reported & recorded for assessment by a competent person. - Operator to review logbook, be satisfied about presence of unauthorised personnel on the Crane & the safe working conditions of the Crane. - Operator to ensure the rated working load of the Crane & any lifting apparatus is not exceeded. - (continued on sheet 2 of 15). 	

Assessment carried out by: Allan WALKER, East West Engineering Date of Assessment: 3rd May 2004

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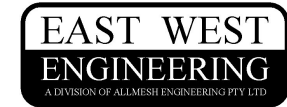
Equipment Type & Description: Type GB-CM Gas Cylinder Storage Cage Sheet: 2 of 15

Operation	Hazards Identified	Risk Assessment	Risk Control Measures in Place	Risk Control In Place (Date)
1. Crane Operational Safety Pre-Checks (Continued).	a) Unsafe use of Crane resulting in Cage, and/or items shifting & falling from height and striking Personnel and/or objects. (Continued)	<ul style="list-style-type: none"> • Serious Risk to Personnel. • Moderate Risk to Operator. 	<ul style="list-style-type: none"> - Any stabilisers to be engaged prior to lifting. - All Crane movements to be carried out under power. - The operational areas to be assessed for hazards prior to and during work shifts. - The Operator to be provided with all necessary information to ensure risks are eliminated or controlled. - The Crane must to be left in safe condition after each shift. - Inspections, maintenance and repairs to be carried out in accordance with the relative Crane Instruction Manuals and AS 2550.1. 	

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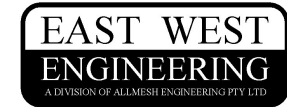
Equipment Type & Description: Type GB-CM Gas Cylinder Storage Cage Sheet: 3 of 15

Operation	Hazards Identified	Risk Assessment	Risk Control Measures in Place	Risk Control In Place (Date)
1. Crane Operational Safety Pre-Checks (continued).	b) Electric Shock	<ul style="list-style-type: none"> • Serious Risk to Operator. • Serious Risk to Personnel. 	<ul style="list-style-type: none"> - All Risk Control Measures outlined in 1(a) above are to be in place. - The Power Supply is to be compatible with the Crane. - Operator to keep clear of overhead obstructions and in particular MAINTAIN RELEVANT CLEARANCES of ELECTRICAL Conductors. - A Spotter shall be used whenever operating near aerial conductors in accordance with AS 2550.1. - Ensure an Electrical isolation procedure developed for the Crane is in place – Operator must know location of main isolation switch & fire fighting equipment. - If more than 25 persons employed at workplace/site, a Certified First Aider to be at Workplace or on Site. 	

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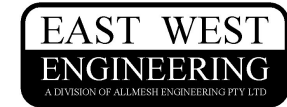
Equipment Type & Description: Type GB-CM Gas Cylinder Storage Cage Sheet: 4 of 15

Operation	Hazards Identified	Risk Assessment	Risk Control Measures in Place	Risk Control In Place (Date)
2. Industrial Truck Operational Safety Pre-Checks.	a) Unsafe use of Industrial Truck – resulting in Cage and/or Items shifting & falling from height and striking Personnel and/or objects.	<ul style="list-style-type: none"> • Serious Risk to Operator. • Serious Risk to Personnel. 	<ul style="list-style-type: none"> - Pre-operational inspections (in accordance with AS 2359.2), to be carried out before each shift – Industrial Truck taken out of service if any risks or malfunctions are found. These MUST be reported & recorded for assessment by a competent person. - Inspections, maintenance and repairs to be carried out in accordance with the relative Industrial Truck Operating Manuals and AS 2359.2. - The Industrial Truck & attachments supporting the Cage to comply with AS 2359.1. - The rated capacity of the Industrial Truck to handle the load must not be exceeded. - (continued on sheet 5 of 15). 	

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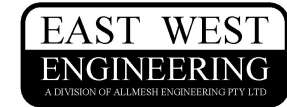
Equipment Type & Description: Type GB-CM Gas Cylinder Storage Cage Sheet: 5 of 15

Operation	Hazards Identified	Risk Assessment	Risk Control Measures in Place	Risk Control In Place (Date)
2. Industrial Truck Operational Safety Pre-Checks (continued).	a) Unsafe use of Industrial Truck – resulting in Cage and/or Items shifting & falling from height and striking Personnel and/or objects (continued).	<ul style="list-style-type: none"> • Serious Risk to Operator. • Serious Risk to Personnel. 	<ul style="list-style-type: none"> - The operational areas to be assessed for hazards prior to and during work shifts. - The Industrial Truck to be used on a hard level surface. - The Industrial Truck to be left in a safe condition after each shift. - The Operator to be provided with all necessary information to ensure risks are eliminated or controlled - If more than 25 persons employed at workplace/site, a Certified First Aider to be at Workplace or on Site when the Industrial Truck is being used. 	

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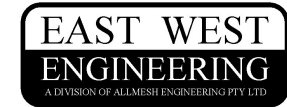
Equipment Type & Description: Type GB-CM Gas Cylinder Storage Cage Sheet: 6 of 15

Operation	Hazards Identified	Risk Assessment	Risk Control Measures in Place	Risk Control In Place (Date)
3. Cage Operational Safety Pre-Checks.	a) Unsafe use of Cage resulting in Cage and/or Load shifting & falling from height and striking personnel and/or objects.	<ul style="list-style-type: none"> • Serious Risk to Personnel. • Moderate Risk to Operator. 	<ul style="list-style-type: none"> - Inspections, maintenance and repairs to be carried out in accordance with Instruction Manual. - All Pre-Checks listed in the Instruction Manual are to be carried out before each shift. - The Cage is to be fitted securely to the lifting apparatus according to the Instruction Manual. - Any Cylinders within the Cage to be firmly secured by the strap/load binder & any other equipment secured appropriately before use. - All instructions for the use of the Cage as laid out in the Instruction manual are to be followed. - The Operator to lift the Cage to required height to confirm all systems are functioning correctly. - (continued on sheet 7 of 15) 	

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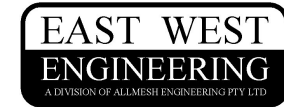
Equipment Type & Description: Type GB-CM Gas Cylinder Storage Cage Sheet: 7 of 15

Operation	Hazards Identified	Risk Assessment	Risk Control Measures in Place	Risk Control In Place (Date)
3. Cage Operational Safety Pre-Checks (continued).	a) Unsafe use of Cage resulting in Cage and/or Load shifting & falling from height and striking personnel and/or objects. (continued).	<ul style="list-style-type: none"> • Serious Risk to Personnel. • Moderate Risk to Operator. 	<ul style="list-style-type: none"> - The Operator to ensure there has been no unauthorised interference or alteration to the equipment that may cause risk. - The hoist used to lift the Cage is not to be twisted or tangled before lifting. - If any equipment becomes unsafe, stop all usage until risk has been eliminated or controlled. - The use of the attachment is limited to those situations for which it is specifically designed and/or in accordance with AS 2550.1. 	

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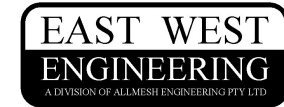
Equipment Type & Description: Type GB-CM Gas Cylinder Storage Cage Sheet: 8 of 15

Operation	Hazards Identified	Risk Assessment	Risk Control Measures in Place	Risk Control In Place (Date)
4. Lifting, Lowering, transporting or manoeuvring Cage/Load with Crane or Industrial Truck.	a) Unsafe/Incompetent Operator.	<ul style="list-style-type: none"> • Serious Risk to Operator. • Serious Risk to Personnel. 	<ul style="list-style-type: none"> - Only Certified & fully Trained Operators are to use the Crane or Industrial Truck. - Operators must not work the Crane or Industrial Truck unless physically & mentally capable. 	
	b) Items Falling from Height.	<ul style="list-style-type: none"> • Serious Risk to Personnel. • Moderate Risk to Operator. 	<ul style="list-style-type: none"> - All Risk Control Measures outlined above are to be in place. - Operator to ensure the Cage is fitted securely to the lifting apparatus and prevented from swinging. - Any Cylinders within the Cage to be firmly secured by the strap/load binder & any other equipment secured appropriately before use. - Barriers/warning Signs in areas subject to passing traffic to be installed. - NO PERSONNEL to ride on or in Cage at any time. - (continued on sheet 9 of 15) 	

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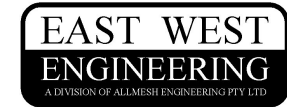
Equipment Type & Description: Type GB-CM Gas Cylinder Storage Cage Sheet: 9 of 15

Operation	Hazards Identified	Risk Assessment	Risk Control Measures in Place	Risk Control In Place (Date)
4. Lifting, Lowering, transporting or manoeuvring Cage/Load with Crane or Industrial Truck (continued).	b) Items falling from height (continued).	<ul style="list-style-type: none"> • Serious Risk to Personnel. • Moderate Risk to Operator. 	<ul style="list-style-type: none"> - The Cage to be raised no higher than necessary. - The Industrial Truck mast, if adjustable, to be back tilted. - Transport the Cage as low as practicable. - Operator to hoist Cage vertically in a smooth manner slowly with minimum acceleration & deceleration. 	
	c) Cage and/or load uncontrolled and/or having unexpected movements.	<ul style="list-style-type: none"> • Serious Risk to Personnel • Moderate Risk to Operator. 	<ul style="list-style-type: none"> - All Risk Control Measures outlined in 4(b) above are to be in place. - Operator to gain assurance from a responsible person that the Cage and any load may be handled safely. - The Cage is NOT to be dragged along the ground. - Use a 'tagline' if necessary - The Operator is to stay with controls at all times whilst in operation. - (continued on sheet 10 of 15) 	

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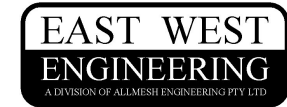
Equipment Type & Description: Type GB-CM Gas Cylinder Storage Cage Sheet: 10 of 15

Operation	Hazards Identified	Risk Assessment	Risk Control Measures in Place	Risk Control In Place (Date)
4. Lifting, Lowering, transporting or manoeuvring Cage/Load with Crane or Industrial Truck (continued).	c) Cage and/or Load uncontrolled and/or having unexpected movements (continued).	<ul style="list-style-type: none"> • Serious Risk to Personnel. • Moderate Risk to Operator. 	<ul style="list-style-type: none"> - Operator to avoid sudden stops, jerky movements. - Cage not to be moved unless the safety of persons in the vicinity of the Crane/Industrial Truck is assured. - Operator to follow directions & signals given by an authorised person unless a dangerous situation occurs in which case all Cage movements to cease. - Cage/hook not to be moved when out of sight unless directed to by authorised person. - When landing the Cage by Crane, rope slack must be avoided. 	
	d) Operator exposed to fixed/moving components.	<ul style="list-style-type: none"> • Serious Risk to Operator. 	<ul style="list-style-type: none"> - The Operator is to stay with controls at all times whilst in operation. - The Operator is to keep hands/feet wholly within Crane/Industrial Truck Cab whilst in operation. 	

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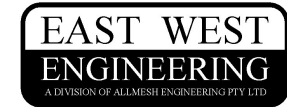
Equipment Type & Description: Type GB-CM Gas Cylinder Storage Cage Sheet: 11 of 15

Operation	Hazards Identified	Risk Assessment	Risk Control Measures in Place	Risk Control In Place (Date)
4. Lifting, Lowering, transporting or manoeuvring Cage/Load with Crane or Industrial Truck (continued).	e) Cage and/or load too heavy and/or unbalanced (e.g. Industrial Truck overturning).	<ul style="list-style-type: none"> • Serious Risk to Operator. • Serious Risk to Personnel. 	<ul style="list-style-type: none"> - All Risk Control Measures outlined in 4(b) and 4(c) above are to be in place. - The Operator to be aware of the weight of Cage & load. - The rated working load of the Crane is NOT to be exceeded. - The rating capacity of the Industrial Truck to handle the load is NOT to be exceeded. - The Operator is to be trained in the use of lifting booms, slings & chains for lifting loads. - When transporting using an Industrial Truck, it is to be used on a hard surface, the area assessed before usage. - The attachment is to be raised unladen to working height to confirm all systems are functioning. 	

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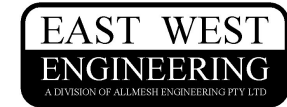
Equipment Type & Description: Type GB-CM Gas Cylinder Storage Cage Sheet: 12 of 15

Operation	Hazards Identified	Risk Assessment	Risk Control Measures in Place	Risk Control In Place (Date)
4. Lifting, Lowering, transporting or manoeuvring Cage/Load with Crane or Industrial Truck (continued).	f) Cage/Load and/or Industrial Truck striking Personnel.	<ul style="list-style-type: none"> • Serious Risk to Personnel. 	<ul style="list-style-type: none"> - All Risk Control Measures outlined in 4(c) and 4(e) above are to be in place. - A suitable clear space between barriers is to be left to safely use the Cage. - The Crane/Cage is NOT to be moved unless the safety of Personnel is assured. - Cage MUST be visible to Personnel controlling the Crane movements at all times whilst suspended. - All safety equipment on the Crane/Industrial Truck MUST be functioning before use, (ie Reversing Beepers). - Convex mirrors are to be placed at Aisle corners used by Industrial Trucks. - (continued on sheet 13 of 15) 	

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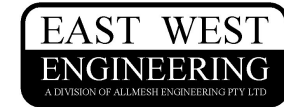
Equipment Type & Description: Type GB-CM Gas Cylinder Storage Cage Sheet: 13 of 15

Operation	Hazards Identified	Risk Assessment	Risk Control Measures in Place	Risk Control In Place (Date)
4. Lifting, Lowering, transporting or manoeuvring Cage/Load with Crane or Industrial Truck (continued).	f) Cage/Load and/or Industrial Truck striking Personnel (continued).	<ul style="list-style-type: none"> • Serious Risk to Personnel. 	<ul style="list-style-type: none"> - A system is to be developed for handling the Cage/loads about the Workplace/Site. - Manoeuvre slowly & cautiously when the Cage/load is elevated. 	
	g) Cage/Load striking objects, Industrial Truck and/or Mast striking Objects.	<ul style="list-style-type: none"> • Serious Risk to Operator. • Serious Risk to Personnel. 	<ul style="list-style-type: none"> - All Risk Control Measures outlined in 4(b), 4(c) and 4(f) above are to be in place. - Lifting & lowering areas to be assessed & the Crane Operator and/or Controller made aware of any objects within the path of normal Crane movements. - Cage/hook to be raised sufficiently to avoid collision during horizontal movements. - The Crane or Industrial Truck Mast to keep clear of any overhead obstructions, and in particular ELECTRICAL conductors. - (continued on sheet 14 of 15) 	

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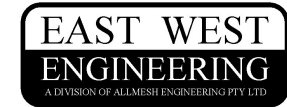
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Operation	Hazards Identified	Risk Assessment	Risk Control Measures in Place	Risk Control In Place (Date)
4. Lifting, Lowering, transporting or manoeuvring Cage/Load with Crane or Industrial Truck (Continued)	g) Cage/Load striking objects, Industrial Truck and/or Mast striking Objects (continued).	<ul style="list-style-type: none"> • Serious Risk to Operator. • Serious Risk to Personnel. 	<ul style="list-style-type: none"> - Work areas to be assessed to ensure NO overhead fittings can be contacted by Industrial Truck mast, Cage and/or load. 	
	h) Crane or Industrial Truck falling from raised areas.	<ul style="list-style-type: none"> • Serious Risk to Operator. • Serious Risk to Personnel. 	<ul style="list-style-type: none"> - All Risk Control Measures outlined above are to be in place. - All safety railings are to be placed in raised areas such as Ramps, Loading Docks etc. 	
	i) Entanglement with lifting ropes, chains, slings, beams, fallropes & taglines.	<ul style="list-style-type: none"> • Serious Risk to Personnel. 	<ul style="list-style-type: none"> - All Risk Control Measures outlined above are to be in place. - Spotters, Dogmen, Riggers are to be well clear of any lifting apparatus before any Crane movements take place. - All lifting ropes, chains, slings and/or lifting beams are to be prevented from swinging and/or become slack. 	

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Equipment Type & Description: Type GB-CM Gas Cylinder Storage Cage Sheet: 15 of 15

Operation	Hazards Identified	Risk Assessment	Risk Control Measures in Place	Risk Control In Place (Date)
5. Storage of Cage	a) Cage becoming damaged.	<ul style="list-style-type: none"> • Serious Risk to Personnel. • Moderate Risk to Operator. 	<ul style="list-style-type: none"> - Regular Maintenance, inspection and testing according to the Instruction Manual to be carried out. - Cage to be stored in dry areas and away from any corrosive chemicals. 	
	b) Cage in the way of normal Workplace/Site Operations.	<ul style="list-style-type: none"> • Moderate Risk to Personnel. 	<ul style="list-style-type: none"> - Attachment to be stored in areas which will not interfere with the normal running of the Workplace/Site. 	

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