Root Cause Analysis Investigation Report

Incident Investigation Title:	Near Miss
Company Name:	[redacted]
Incident Number:	[redacted]
Site Address	[redacted]
Author(s) and Job Titles	John Steven Simons CMIOSH
Investigation Report Date (updated):	First report - 30 September 2019
Status Report	Final report

INCIDENT REPORT

Contractor	[redacted]	**Date of the accident**	25 September 2019
On-site Supervisor	[redacted]	**Time of the incident**	12:40
Contract Supervisor	[redacted]	**Project Manager**	[redacted]
Emergency Services Summoned	No	**Person Informed (Name)**	[redacted]
Location of Incident	Vinegar Yard	**Photographs Taken**	After the event

INCIDENT TYPE	YES (state)	OTHER COMMENT
Fatality		
Major Injury		
Riddor time loss injury		
Near Miss (Non-RIDDOR)	Yes	
Other (state) No time loss injury		

DETAILS OF PERSON (S) INJURED (IP)	**EMPLOYER (S) DETAILS**
WITNESS None	**Contact Details**
TYPE / NATURE OF INJURIES SUSTAINED (if known) None	

TYPE / NATURE OF WORKS BEING PERFORMED

The scaffold crew required additional materials, the rope and wheel were set up over Vinegar Yard site entrance to the right-hand side of the two gates.
The groundsman was pulling up tube, fitting and boards scaffolding by rope and wheel.

INCIDENT REPORT

Working Condition

Drizzle

Equipment/materials involved.

Gin wheel and fall rope
Scaffold ancillary materials

DESCRIPTION OF INCIDENT

The groundsman tied and secured two 13ft boards the board slipped out of the rope above 1m above the ground.

PRINCIPAL ACTIONS TAKEN

Carl Pinner gave a toolbox talk, of rope and wheel. An additional toolbox talk was given today.

ANOTHER IMPORTANT DETAILS / FACT KNOWN

Vinegar Yard accessible to other contractors during the raising and lowering. The Gate pushed shut with the groundsman to monitor foot traffic. The pull-up zone managed by plastic barrier and a security guard.

Lifting activities using gin wheel and fall rope

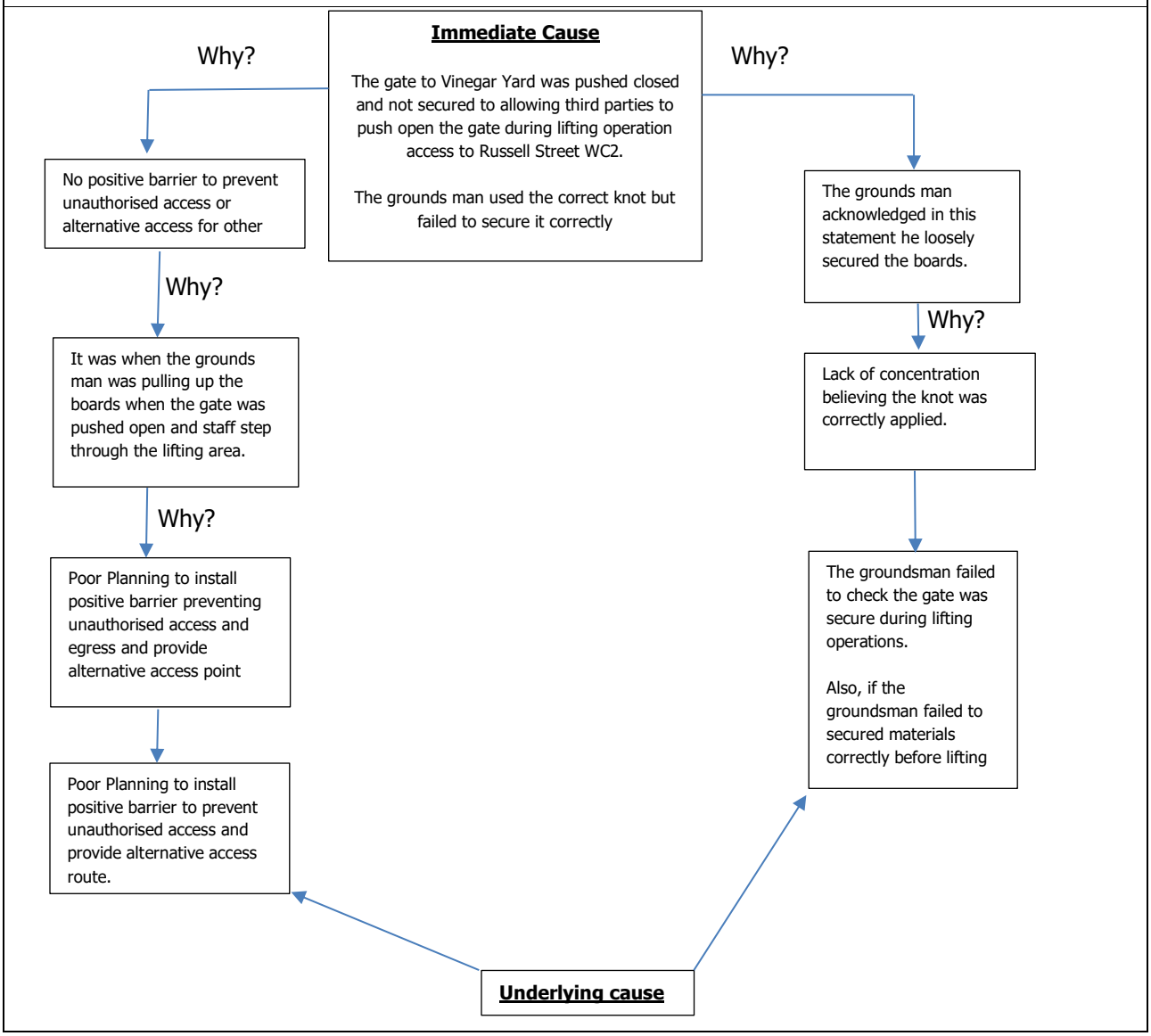
Gin wheel fixing – observation the gin wheel suspended from a cantilevered tube. The wheel was fixed with double check couplers on both sides of the suspension points.

The cantilevered tube extends across two upright and projected from the outside standard approximately 750mm from the working lift.

Rope Man-Made Fibre Rope visually inspected and in order, no defects recorded.

INCIDENT REPORT

HOW & WHY DID THE INCIDENT HAPPEN? WHAT IS THE ROOT OR UNDERLYING CAUSE?



INCIDENT REPORT

LEARNINGS & RECOMMENDATIONS

Learning

Rope and Ginny Wheels are a common accessory for scaffolders and must be attached correctly. The safety protocol for segregation must be outlined in the daily task briefing when undertaking lifting operations.

The loosely attachment of scaffold boards using timber hitch fell far short of the expected standard and made it almost unavoidable that it would fall, endangering anyone beneath.

Recommendations

[redacted], the principal contractor to plan access and egress routes and segregate around sub-contractors high risk operations.

New toolbox talk provided on access and egress, rope and wheel and segregation. Ref to page seven.

Heras fencing panel installed around the pull-up zone and in front of the gates with safety signs posted.

John Steven Simons		**Date:**	[redacted]
		Time:	
		Contact Tel:	07792271308

Supporting Documentation

Samir Yasin 30/9/19

Incident time -
After 1 Oclock afternoon

I got to my working area where I was looking to pull a multiple amount of materials. This considered of numerous bags of fittings [redacted] (5-6 bags), in terms of tube this varied from 5 ft to 13 ft tube in this particular pull session. The boards varied from 8 ft. to 13 ft, the area that I was pulling up, there was a security officer behind me to Supervisor the area that individuals did not come out of the two doors that needed to be closed at all times. When I pulled up the two 13 ft boards which come out of the [redacted] the weather on the day was very wet and there had been a considerable amount of rain which had already caused the boards to be alot wetter, I believe [redacted] when I tried the knot it was in the correct procedure way but potentially not tight enough. Prior to this day I had pulled up countless amount of times. On this occasion [redacted] when the boards did come out the board did hit a tube which made a significant [redacted] hit on allowing the boards to come out of the knot which I [redacted] much.

SAMIR YASIN

Fig 1 – [redacted]

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Personal Development Plan

Subject

Using a Ginny wheel and Fall Rope

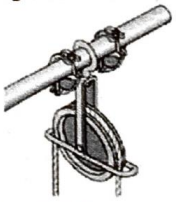
Outline: to maintain CISRS techniques for raising or lowering Scaffolding materials by Ginny wheel and fall rope.

Reference Notes
Lifting Operations and Lifting Equipment Regulations 1998 (LOLER)
SG9-15 Use, Inspection & Maintenance of Lifting Equipment

Instructions for employees

- Topman to work with a guardrail in place and if possible, a toe board;
- Take extra care in windy conditions — if too windy, stop working;
- Mandatory PPE Safety helmet and gloves must be worn;
- Only purpose-made lifting bags or baskets to be used for raising, or lowering fittings;

- Ropes (18mm diameter) to be in good condition and fit snugly in the wheel;
- A figure of 8 knot to be used to prevent the rope from going through the wheel completely;
- Load bearing fitting to be placed on each side of the gin wheel on support tube;



- The gin wheel must be suspended from its supporting tube no more than 750mm from the scaffold;

- Scaffold to be tied in on the lift directly below where the Ginny wheel is positioned;
- The gin wheel supporting tube must be secured at two points using load-bearing fittings only, i.e. two standards or two ledgers. Where a joint occurs on the inside standard between the supporting tube and the working platform a sleeve coupler should be used, (or splice joint with butt tube + two swivels or band and plates

Situation awareness

- Carefully select a safe working area/exclusion zone whereby co-workers and the public are not at risk and barrier off with secured Heras Fencing panel with safety signs posted.
- Ginny wheels and ropes must be inspected prior to use.
- Ensure the wheels are in good condition, corrosion-free, free running and that split pins are in place and undamaged (nails are unacceptable)

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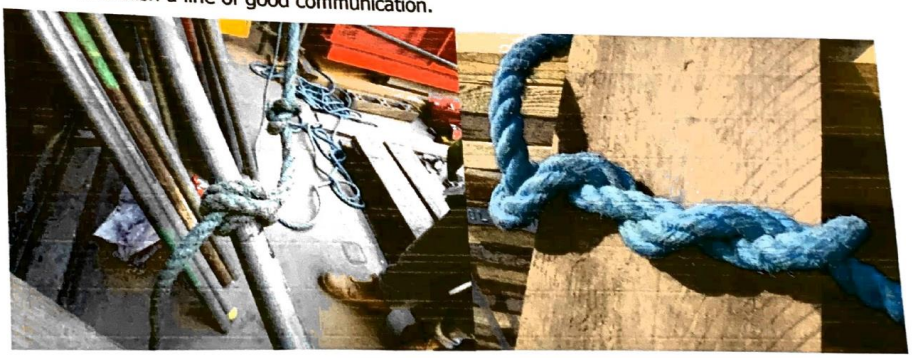
- Make sure loads are properly secured; use the rolling hitch knot for tubes and timber hitch for boards. When raising/lowering an even number of tubes or boards use a half hitch as well to improve grip.

Tying Materials

- The maximum amounts of material to be lifted or lowered:
  - 2 boards of any length;
  - 1 tube up to 6.4m (21ft)
  - 2 tubes up to 3m (10ft)
  - 3 tubes up to 2.4m (8ft)
- Remove any obstructions, i.e. protruding tubes from the route of travel of rope;
- Never stand directly under the suspended load, and concentrate at all times by maintaining line of sign of the raised materials;
- When lowering materials, the top man to ensure that the person below ready to receive them.
- Establish a line of good communication.



Rolling hitch knot for tubes and Timber hitch – Good practice.

Hand lines

Instead of using Gin Wheels, a 'handline' may be used to tie materials to a fibre rope, typically of a 12 mm diameter, and haul them up by hand over hand only.

Hand lines are typically suitable for lifting/lowering materials of up to 20 kg.

Non-operational times

The Ginny wheel and fall rope must be made safe at breaks by lifting off the ground or curled up and tied off at high level. Remove any surplus materials and secure any vertically positioned materials.

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Not acceptable practice, the use of a light line between two wrap ov
single butt tube.

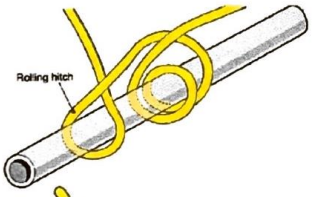
Scaffolding Training Module

Basic Requirements

Knots

The recommended knots to be used when rising or lowering scaffold components are as shown on this page, i.e. rolling hitch, timber hitch and figure of-eight knot.

Figure 30 **Rolling Hitch**



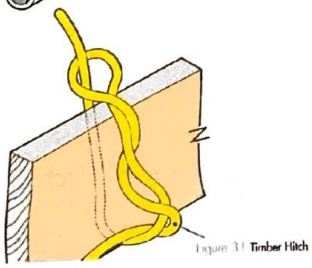


Figure 31 **Timber Hitch**

Figure 32 **Bowline**

Figure 33 **Figure of Eight**

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NASC/CISRS scaffolding training notes

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TRAINING AND DEVELOPMENT PLAN ATTENDANCE SHEET

Subject Using a Ginny Wheel and Rope	**Date** 30/9/19
Location THEATRE ROYAL - DRURY LANE	**Start time** 11:45
Duration (minutes)	**End time** 12:06
Presenter's name J SIMONS	**Presenter's signature**

I hereby acknowledge that I attended, received and understood the toolbox talk, and will work with the guidelines at all times.

Name (capitals)	Signature	Employer
1. CARL PINER	C Piner	COVENTRY
2. SAMIR YASIN		COVENTRY
3. Danny Walker		coventry
4. Dean Walker		coventry
5. Connor Dighton	C. dighton.	COVENTRY
6. WAYNE MITCHELL		COVENTRY SCAFFOLDING.
7. HARRY LONGMAN		COVENTRY
8. TERRY BRIGGS	T. Briggs	coventry
9. KENNY DEVEREUX		Coventry
10.		
11.		
12.		

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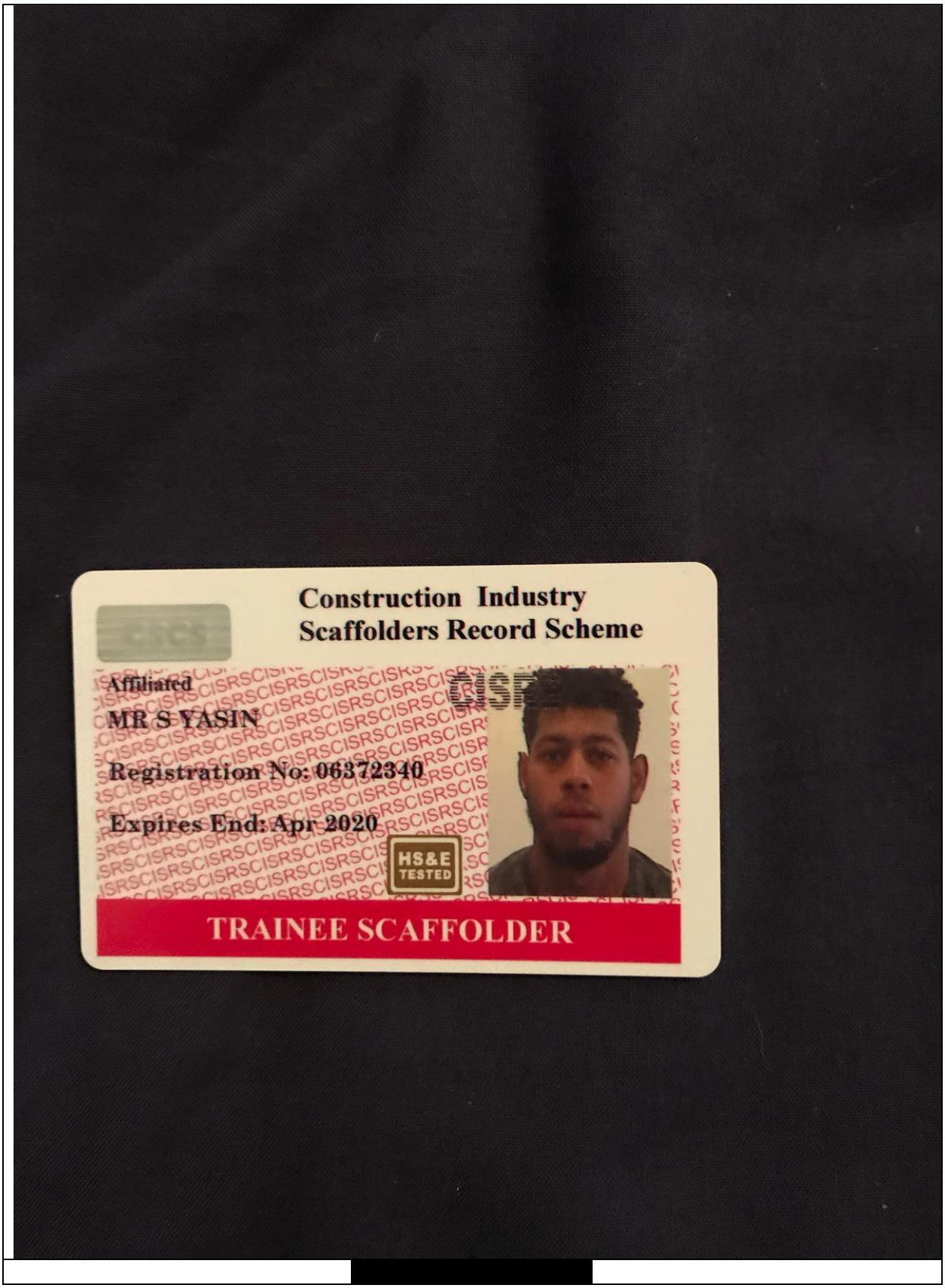
Vinegar Yard Doorway the pull-up zone.

The overhead view above the doorway


Construction Industry
Scaffolders Record Scheme
Affiliated
MR S YASIN
Registration No: 06372340
Expires End: Apr 2020
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TRAINEE SCAFFOLDER

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