



Gloucestershire Warwickshire Steam Railway Plc
Risk Assessment for Working with Cement & Lime - Construction and Maintenance

Risk Assessment - Working with Cement & Lime

Reference No: CON-44518-91
 Version No: 3
 Assessment Approver: Kevin Jarvis

Department: Construction and Maintenance
 Date Of Assessment: 18 November 2021
 Review Due Before: 24 March 2031
 Lead Assessor: Chris Helm
 Team: Jim Hitchen & Kevin Jarvis

Working with hand mixed cement & lime

| Type | Hazard Cause | Persons Affected | Control Measures | L S T Overall | Additional Control Measures | L S T Overall | Owner/Action |
|-------------------|-----------------------------------------------------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|--------------|
| Health and Safety | Skin or eye damage plus inhalation of dusts Contact with materials | Volunteers & Staff | 1) CRITICAL - Administrative: COSHH Assessments to be available for all materials as required - Effective 2) CRITICAL - Administrative: Consider the wind direction when using powdered materials - Effective 3) CRITICAL - Administrative: Wash any contaminated areas with plenty of water immediately. - Effective 4) CRITICAL - Administrative: Be aware for the potential of burns from wet concrete and clean and wash any affected areas immediately. - Effective 5) CRITICAL - PPE: Wear gloves, eye protection, overalls and dust mask when powders are present. - Effective 6) CRITICAL - PPE: Have eye wash bottles available for use. - Effective | 2 x 2 = 4 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level. | 1) Administrative: Consider the impact on others before commencing work - Effective | 2 x 2 = 4 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level. | n/a |

Score and Control Measure Notes.

Low risk due to nature of materials.
 Risk remains low

Working with on-site mixed cement and lime

| Type | Hazard Cause | Persons Affected | Control Measures | L S T Overall | Additional Control Measures | L S T Overall | Owner/Action |
|-------------------|--------------------------------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|--------------|
| Health and Safety | Personal injury Contact with moving machinery | Volunteers & Staff | 1) CRITICAL - Engineering: Equipment to be PATS tested. - Effective 2) CRITICAL - Engineering: 110V machinery only - Effective 3) CRITICAL - Engineering: Equipment mounted on a level surface - Effective 4) CRITICAL - Engineering: Raw materials to be stored away from the direct working area. - Effective 5) CRITICAL - Engineering: Staff to be aware of the weight of equipment and plan lifts. - Effective 6) CRITICAL - Administrative: Volunteers to be trained and competent and confident in the use of the equipment - Effective 7) CRITICAL - Administrative: Trailing hoses and leads to be managed to avoid trip hazards - Effective 8) CRITICAL - Administrative: All staff to have undertaken the GWSR Manual Handling training - Effective 9) CRITICAL - Administrative: COSHH assessments in place and followed for cement - Effective | 1 x 3 = 3 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level. | 1) Engineering: Consider use of RCD protection. - Effective | 1 x 3 = 3 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level. | n/a |

Score and Control Measure Notes.

Risk low if control measures followed.
 Risk remains low.

Working with concrete pump delivered cement and lime



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| Type | Hazard Cause | Persons Affected | Control Measures | L Overall | S | T | Additional Control Measures | L Overall | S | T | Owner/Action |
|-------------------|--------------------------------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----|---|-----------------------------|--------------|---|---|--------------|
| Health and Safety | Personal Injury Contact with moving machinery | Volunteers & Staff | 1) CRITICAL - Administrative: Contractors to be inducted and forms completed - Effective 2) CRITICAL - Administrative: Contractors to supply their own risk assessments - Effective 3) CRITICAL - Administrative: GWSR staff to keep away from contractor mixing equipment - Effective 4) CRITICAL - Administrative: GWSR staff to be competent to assist with spreading, levelling and vibrating the discharged concrete - Effective | 1 x | 3 = | 3 | None | n | n | n | n/a |

COSHH Assessments

The following COSHH assessments are applicable to this risk assessment:

- COSHH-44518-24 - Portland Cement Powder
- Ends



Appendix



Reference: UI-44518-585
Cement Mixer -