



Gloucestershire Warwickshire Steam Railway Plc
Risk Assessment for Stripping and Painting of Carriage & Wagon Exteriors - Carriage and Wagon

Risk Assessment - Stripping and Painting of Carriage & Wagon Exteriors

Reference No: CAR-44259-55

Version No: 1

Assessment Approver: Philip Moore

This RA described the risks associated with the preparation and painting of the different parts of vehicles undergoing restoration, i.e. the sides, ends, roofs. The risks depend to some extent on whether the vehicle is in the paint shop, workshop, barn or outside in the yard.

Department: Carriage and Wagon
Date Of Assessment: 04 March 2021
Review Due Before: 19 October 2026
Lead Assessor: A. Killey
Team: D. Clark

Carriage/Wagon Preparation from Ladder or Steps, Sides and Ends

Type	Hazard Cause	Persons Affected	Control Measures	L Overall	S	T	Additional Control Measures	L Overall	S	T	Owner/Action
Health and Safety	Fall from Ladder or Steps Ladder or Steps improperly secured. Overstretching when using a Hand or Power Tool. Ladder or Steps Defective	Volunteers & Staff	1) CRITICAL - Engineering: Ladders are secured as far as possible either with ropes or ratchet straps - Effective 2) CRITICAL - Administrative: All ladders undergo regular safety inspections - Effective 3) CRITICAL - Administrative: Staff are warned about the dangers of overreaching when using steps or ladders - Effective 4) CRITICAL - Administrative: Semi-permanent Access Steps are routinely secured to door frames etc to stop them tipping and to reduce the chance of a slip, trip or fall. - Effective 5) CRITICAL - Administrative: When the Vehicle is in the Yard Extra Care is Needed to Ensure that Ladders are Secure and Stable. Towers are not Used in the Yard. Only Carriage Sides are Worked on by the Painting Team - Effective	2 x	2 =	4	1) Administrative: Consider training in the Safe Use or Access Equipment - Effective	1 x	2 =	2	n/a
				Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.				Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.			
Health and Safety	Hand or Eye Injury Improper Use of a Hand Tool or Power Sander	Volunteers & Staff	1) CRITICAL - Administrative: Staff Always Follow Safety Instructions for Use of hand and Power Tools - See Appropriate RA - Effective 2) CRITICAL - PPE: Appropriate PPE Always to be Worn - Effective	1 x	2 =	2	None	1 x	2 =	2	n/a
				Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.				Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.			
Health and Safety	Injury Caused by an Object Falling onto Someone Below The Dropping of Tools while ascending/descending or working at height	Volunteers & Staff	1) Administrative: Hand Tools etc should be Carried in a container of some sort to reduce the chance of them dropping - Effective	1 x	2 =	2	None	1 x	2 =	2	n/a
				Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.				Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.			
Health and Safety	Personal Injury Due to a Slip or Trip Badly sighted electric cables. Careless movement carrying tools etc. Overreaching.	Volunteers & Staff	1) CRITICAL - Administrative: Cables are Always Laid so as to reduce the likelihood of them being trip hazards - Effective 2) Administrative: Staff are warned about the dangers of overreaching and slipping of tripping when working - Effective	1 x	2 =	2	None	1 x	2 =	2	n/a
				Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.				Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.			



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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	Fall from Ladder or Steps Ladder or Steps improperly secured. Overstretching when using a Paint Brush. Ladder or Steps Defective	Volunteers & Staff	1) CRITICAL - Elimination: Semi-permanent Access Steps are routinely secured to door frames etc to stop them tipping and to reduce the chance of a slip, trip or fall. - Effective 2) CRITICAL - Engineering: Ladders are secured as far as possible either with ropes or ratchet straps - Effective 3) CRITICAL - Administrative: All ladders undergo regular safety inspections - Effective 4) CRITICAL - Administrative: taff are warned about the dangers of overreaching when using steps or ladders - Effective 5) CRITICAL - Administrative: When the Vehicle is in the Yard Extra Care is Needed to Ensure that Ladders are secure and stable. Towers are not Used in the Yard. Only Carriage Sides are Worked on by the Painting Team - Effective	2 x Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	2 = 4	1) Administrative: Consider training in the Safe Use of Access Equipment - Effective	1 x Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	2 = 2	n/a
Health and Safety	Injury Caused by an Object Falling onto Someone Below The Spillage of Paint. The dropping of brushes etc while working. Paint tins inadvertently falling from height. Overreaching.	Volunteers & Staff	1) Administrative: Brushes and Other Tools should be Carried in a container of some sort to reduce the chance of them dropping while ascending/descending steps or ladders - Effective 2) CRITICAL - Administrative: Paint tin lids should be properly secured when taking them aloft. - Effective 3) CRITICAL - Administrative: Small Quantities of Paint should be decanted into pots where possible to reduce the chance of spillage, especially if the paint is supplied in a Large Tins - Effective	2 x Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	2 = 4	None	1 x Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	2 = 2	n/a
Health and Safety	Personal Injury due to a Slip or Trip Careless movement when ascending or descending a ladder. Overreaching when attempting to paint an area too far away from the position of the steps or ladder	Volunteers & Staff	1) CRITICAL - Administrative: All trip hazards are carefully reduced before starting work - Effective 2) CRITICAL - Administrative: Staff are warned about the dangers of overreaching - Effective	2 x Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	2 = 4	None	2 x Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	2 = 4	n/a
Health and Safety	Paint and Solvent Material Hazards Spillages. Inhalation of fumes etc. Incorrect Disposal/Storage Methods	Volunteers & Staff	1) CRITICAL - Administrative: Safe Procedures are Followed in Accordance with the "Paints and Solvents" Risk Assessment - Effective	3 x Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	1 = 3	None	3 x Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	1 = 3	n/a

Carriage/Wagon Preparation from Tower, Sides, Ends or Roof Sides



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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	Fall from Tower Tripping and Falling when Ascending/Descending Tower carrying tools etc. Tower not Properly Assembled/Secured	Volunteers & Staff	1) CRITICAL - Administrative: Scaffold towers are regularly inspected by the relevant H&S team - Effective 2) CRITICAL - Administrative: Towers must be properly checked before use. See attached for details. - Effective 3) Administrative: Staff are warned about the dangers of overreaching. - Effective	1 x 3 = 3 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	3	None	1 x 3 = 3 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	3	n/a
Health and Safety	Hand or Eye Injury Improper Use of a Hand Tool or Power Sander	Volunteers & Staff	1) CRITICAL - Administrative: Staff Always Follow Safety Instructions for Use of hand and Power Tools - See Appropriate RA - Effective 2) CRITICAL - Administrative: Proper safety measures are followed when using compressed air sanders, see appropriate RA, and angle grinders, see appropriate RA - Effective 3) CRITICAL - PPE: Appropriate PPE Always to be Worn - Effective	1 x 2 = 2 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	2	None	1 x 2 = 2 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	2	n/a
Health and Safety	Injury Caused by an Object Falling onto Someone Below The dropping of Tools while ascending/descending or working at height	Volunteers & Staff	1) CRITICAL - Elimination: Hand Tools etc should be Carried in a container of some sort to reduce the chance of them dropping - Effective	1 x 2 = 2 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	2	None	1 x 2 = 2 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	2	n/a
Health and Safety	Personal Injury Due to a Slip or Trip Badly sighted electric cables. Careless movement carrying tools etc. Overreaching.	Volunteers & Staff	1) CRITICAL - Administrative: Cables are Always Laid so as to reduce the likelihood of them being trip hazards - Effective 2) CRITICAL - Administrative: Staff are warned about the dangers of overreaching - Effective	1 x 3 = 3 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	3	None	1 x 3 = 3 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	3	n/a

Carriage/Wagon Painting from Tower, Sides, Ends or Roof Sides



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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	Fall from Tower Tripping and Falling when Ascending/Descending Tower carrying paint tins/pots etc. Tower not Properly Assembled/Secured	Volunteers & Staff	1) CRITICAL - Elimination: Towers must be properly checked before use. See attached for details. - Effective 2) CRITICAL - Administrative: Scaffold towers are regularly inspected by the relevant H&S team - Effective 3) CRITICAL - Administrative: Staff are warned about the dangers of overreaching. - Effective	1 x 3 = 3 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	3	1) Administrative: Consider training in the Safe Use of Scaffold Towers - Effective	1 x 3 = 3 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	3	n/a
Health and Safety	Injury Caused by an Object Falling onto Someone Below The Spillage of Paint. The dropping of brushes etc while working. Paint tins inadvertently falling from height. Overreaching.	Volunteers & Staff	1) Administrative: rushes and Other Tools should be Carried in a container of some sort to reduce the chance of them dropping while ascending/descending scaffold towers - Effective 2) CRITICAL - Administrative: aint tin lids should be properly secured when taking them aloft. - Effective 3) CRITICAL - Administrative: Small Quantities of Paint should be decanted into pots where possible to reduce the chance of spillage, especially if the paint is supplied in a Large Tins - Effective	2 x 2 = 4 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	4	None	2 x 2 = 4 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	4	n/a
Health and Safety	Personal Injury Due to a Slip or Trip Careless movement when ascending or descending a ladder. Overreaching when attempting to paint an area too far away from the position of the steps or ladder	Volunteers & Staff	1) CRITICAL - Administrative: All trip hazards are carefully reduced before starting work - Effective 2) CRITICAL - Administrative: Staff are warned about the dangers of overreaching - Effective	2 x 2 = 4 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	4	None	2 x 2 = 4 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	4	n/a
Health and Safety	Paint and Solvent Material Hazards Spillages. Inhalation of fumes etc. Incorrect Disposal/Storage Methods	Volunteers & Staff	1) CRITICAL - Administrative: Safe Procedures are Followed in Accordance with the "Paints and Solvents" Risk Assessment - Effective	3 x 1 = 3 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	3	None	3 x 1 = 3 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	3	n/a

Carriage/Wagon Roof Middle Preparation Using Fall Arrest System



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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	Volunteer Falls from Roof Unchecked Faults in the Fall Arrest System. Harness not put on or connected to Fall Arrest Device. System Used Incorrectly After a Fall	Volunteers & Staff	1) CRITICAL - Administrative: The Fall Arrest System is Inspected Annually by the Installation Firm and Certificates Are Issued to Those Authorised to Use the System - Effective 2) CRITICAL - Administrative: All Staff Permitted to Use the System must have Had Formal Working at Heights Training - Effective 3) CRITICAL - Administrative: The Harness is Always Inspected for Faults before Use - Effective 4) CRITICAL - Administrative: The Harness Must be Connected to the Device While the User is Standing On the Ground - Effective 5) CRITICAL - Administrative: Following a fall the system must be checked by the Installation Firm before it can be used again - Effective 6) CRITICAL - Administrative: A check is kept by ground-based staff in case the user falls and is left dangling in mid air, so that they can be rescued as quickly as possible to prevent them becoming unconscious. - Effective	2 x	4 =	8	None Medium - Risk to be minimised and controlled so far as is reasonably practical.	2 x	4 =	8	n/a Medium - Risk to be minimised and controlled so far as is reasonably practical.
Health and Safety	Injury to Person on the Ground from Falling Equipment Sanding Tools, Grinding Tools or Other Heavy Objects not Properly Secured on the Roof of a Vehicle	Volunteers & Staff	1) CRITICAL - Administrative: Hand Tools and Other Loose equipment is always carried, and kept when in use, in a bucket or container which is secured by rope to the safety wire - Effective 2) CRITICAL - Administrative: Electrical Cables for Sanding and Grinding Power Tools are Always Carefully positioned so as not to cause anything to Fall from the Roof - Effective 3) CRITICAL - Administrative: Staff should ideally not work underneath the area of roof being worked on. - Effective 4) CRITICAL - PPE: Safety Helmets should be worn if it is necessary to work beneath someone working on a carriage roof - Effective	2 x	2 =	4	None Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	2 x	2 =	4	n/a Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.
Health and Safety	Accident Due to Faulty Fall Arrest System Lack of Annual Inspection by Installation Contractors. Use of Faulty Harnesses	Volunteers & Staff	1) CRITICAL - Administrative: The Fall Arrest System is inspected annually by the Installation Firm - Effective 2) CRITICAL - Administrative: The Fall Arrest System and Harness are Always Inspected for Faults before being used - Effective	1 x	4 =	4	None Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	1 x	4 =	4	n/a Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.
Health and Safety	Trip Hazards Electrical Cables for Sanders/Grinders or Other Materials Badly Located for Job in Hand	Volunteers & Staff	1) CRITICAL - Administrative: Trailing cables of electrical equipment are always carefully positioned to reduce the chances of tripping and falling - Effective 2) CRITICAL - Administrative: Loose equipment is always kept in a bucket or container secured by rope to the safety wire when not in use. - Effective	2 x	2 =	4	None Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	2 x	2 =	4	n/a Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.



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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	Fall from Roof Access Ladder Ladder not properly Secured. Poor Access to Vehicle Roof for Some Reason	Volunteers & Staff	1) CRITICAL - Administrative: The ladder for access to the roof is always securely tied by either a rope or a ratchet strap. - Effective 2) CRITICAL - Administrative: Extra Care is taken if the access to a roof is difficult - Effective	2 x	4 =	8	None	2 x	4 =	8	n/a
				Medium - Risk to be minimised and controlled so far as is reasonably practical.				Medium - Risk to be minimised and controlled so far as is reasonably practical.			

Carriage/Wagon Roof Middle Painting Using Fall Arrest System

Type	Hazard Cause	Persons Affected	Control Measures	L Overall	S	T	Additional Control Measures	L Overall	S	T	Owner/Action
Health and Safety	Volunteer Falls from Roof Unchecked Faults in the Fall Arrest System. Harness not put on or connected to Fall Arrest Device. System Used Incorrectly After a Fall	Volunteers & Staff	1) CRITICAL - Administrative: The Fall Arrest System is Inspected Annually by the Installation Firm and Certificates Are Issued to Those Authorised to Use the System - Effective 2) CRITICAL - Administrative: All Staff Permitted to Use the System must have Had Formal Working at Heights Training - Effective 3) CRITICAL - Administrative: The Harness is Always Inspected for Faults before Use - Effective 4) CRITICAL - Administrative: The Harness Must be Connected to the Device While the User is Standing On the Ground - Effective 5) CRITICAL - Administrative: Following a fall the system must be checked by the Installation Firm before it can be used again - Effective 6) CRITICAL - Administrative: A check is kept by ground-based staff in case the user falls and is left dangling in mid air, so that they can be rescued as quickly as possible to prevent them becoming unconscious - Effective	2 x	4 =	8	None	2 x	4 =	8	n/a
				Medium - Risk to be minimised and controlled so far as is reasonably practical.				Medium - Risk to be minimised and controlled so far as is reasonably practical.			
Health and Safety	Injury to Person on the Ground from Falling Equipment Paint Tins or Other Heavy Objects Falling from Roof onto a Person on the Ground	Volunteers & Staff	1) CRITICAL - Administrative: Paint Tins are always Secured to the Safety Wire by Rope. Brushes, and other loose equipment are kept in a bucket when not in use. - Effective 2) CRITICAL - Administrative: Staff should ideally not work underneath the area of roof being worked on. - Effective 3) CRITICAL - PPE: Safety Helmets should be worn if it is necessary to work beneath someone working on a carriage roof - Effective	2 x	2 =	4	None	2 x	2 =	4	n/a
				Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.				Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.			
Health and Safety	Accident Due to Faulty Fall Arrest System Lack of Annual Inspection by Installation Contractors. Use of Faulty Harnesses	Volunteers & Staff	1) CRITICAL - Administrative: The Fall Arrest System is inspected annually by the Installation Firm - Effective 2) CRITICAL - Administrative: The Fall Arrest System and Harness are Always Inspected for Faults before being used - Effective	2 x	2 =	4	None	2 x	2 =	4	n/a
				Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.				Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.			



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Risk Assessment for Stripping and Painting of Carriage & Wagon Exteriors - Carriage and Wagon

Type	Hazard Cause	Persons Affected	Control Measures	L Overall	S T	Additional Control Measures	L Overall	S T	Owner/Action
Health and Safety	Trip Hazards Painting Equipment not Properly Looked After While Working	Volunteers & Staff	1) CRITICAL - Administrative: Loose equipment is always kept in a bucket or container secured by rope to the safety wire when not in use. - Effective	2 x 2 = 4 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	4	None	2 x 2 = 4 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	4	n/a
Health and Safety	Fall from Roof Access Ladder Ladder not properly Secured. Poor Access to Vehicle Roof for Some Reason	Volunteers & Staff	1) CRITICAL - Administrative: The ladder for access to the roof is always securely tied by either a rope or a ratchet strap - Effective 2) CRITICAL - Administrative: Extra Care is taken if the access to a roof is difficult - Effective	2 x 4 = 8 Medium - Risk to be minimised and controlled so far as is reasonably practical.	8	None	2 x 4 = 8 Medium - Risk to be minimised and controlled so far as is reasonably practical.	8	n/a
Health and Safety	Paint and Solvent Material Hazards Spillages. Inhalation of fumes etc. Incorrect Disposal/Storage Methods	Volunteers & Staff	1) CRITICAL - Administrative: Safe Procedures are Followed in Accordance with the "Paints and Solvents" Risk Assessment - Effective 2) Administrative: For Roof Work Small Quantities of Paint are Always Decanted into small pots to reduce the chance of spillages. - Effective 3) CRITICAL - PPE: Appropriate Protection is Worn as Required - Effective	3 x 1 = 3 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	3	None	3 x 1 = 3 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	3	n/a

COSHH Assessments

There are no COSHH assessments associated with this risk assessment.
Ends