



**Gloucestershire Warwickshire Steam Railway Plc**  
**Risk Assessment for Removal of Carriage Corridor End - Carriage and Wagon**

**Risk Assessment - Removal of Carriage Corridor End**

Reference No: CAR-44033-65

Version No: 2

Assessment Approver: Kevin 'Kev' Jarvis

Department: Carriage and Wagon

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Lead Assessor: A. Killey

Team: I Stroud

**Removal and Refitting of the Gangway Connector on a Mk1 Coach**

Type	Hazard Cause	Persons Affected	Control Measures	L Overall	S T	Additional Control Measures	L Overall	S T	Owner/Action
Health and Safety	Falling from Tower/Ladder while working at Height Use of Ladder/Tower to Gain Access to Gangway Fixings etc	Volunteers & Staff	1) CRITICAL - Engineering: Correct Assembly of Scaffolding Tower - Effective 2) CRITICAL - Engineering: Care is taken to make sure tower is on level ground. - Effective 3) CRITICAL - Administrative: All staff must be trained and competent in Working at Height by completing the GWR training module. - 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	Injury to Hands from Sharp Edges or Face from Flying Debris During the removal of fixings and components attached to the gangway connector (prior to its removal from the carriage) using hand or electric tools at height.	Volunteers & Staff	1) CRITICAL - Elimination: Power tools to be checked before use and PATS tested and properly maintained. - Effective 2) CRITICAL - PPE: Overalls, gloves, safety footwear and eyewear 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 Incorrect Use of Metal Cutting Torch A Flame Cutter may possibly be needed to free the item from the coach.	Volunteers & Staff	1) CRITICAL - Elimination: Only Competent Persons use flame cutting equipment. - Effective 2) CRITICAL - Elimination: Gas cutting and welding equipment is regularly checked by an outside contractor. - 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	Heavy Item Falling from Lifting Gantry onto Worker Incorrect Attachment of Lifting Hooks etc	Volunteers & Staff	1) CRITICAL - Engineering: The weight of the connection is to be check before lifting clear and be within the cpability of the lifting equipment. - Effective 2) CRITICAL - Engineering: All lifting equipment to be inspected, certified and in ticket. - Effective 3) CRITICAL - Administrative: Only Competent Persons to Use Lifting Gantry. - Effective	1 x	3 = 3	None	1 x	3 = 3	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	Lifting Gantry Toppling Over Item too heavy or badly supported when being Lifted Clear of Coach	Volunteers & Staff	1) CRITICAL - Engineering: The Gantry is to be only used when on level ground. - Effective 2) CRITICAL - Administrative: Only Competent Persons to Use C&W Lifting Equipment. - Effective 3) CRITICAL - Administrative: Persons not involved in the activity to be kept away from the work area. - 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	Trapped fingers/hand during gangway removal Gangway swings and traps fingers between frame and gantry. Fingers trapped when using trolley jack and webbing strap	Volunteers & Staff	1) CRITICAL - Administrative: Volunteer training in Hazard awareness - Effective 2) CRITICAL - Administrative: Staff to keep hands and body well away from inch points. - Effective	3 x 2 = 6 Medium - Risk to be minimised and controlled so far as is reasonably practical.	6	1) Engineering: Design/build purpose made jacking mechanism to lever gangway legs out from carriage body. - Effective	3 x 2 = 6 Medium - Risk to be minimised and controlled so far as is reasonably practical.	6	n/a
Health and Safety	Eye injury Dirt/cutting debris enters eye during cutting of gangway fixings particularly removal of leg retaining pegs	Volunteers & Staff	1) CRITICAL - PPE: Use safety glasses/goggles - Effective	2 x 1 = 2 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	2	None	2 x 1 = 2 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	2	n/a

### **COSHH Assessments**

There are no COSHH assessments associated with this risk assessment.

### **Reference Documents**

- Procedure for Removing and Attaching Corridor Ends -

Ends