Risk Assessment - Young Engineers Event

Reference No: PER-45547-98
Version No: 1
Assessment Approver: Colin Charman

Displaying materials and tools at the Young Engineers event and allowing young, untrained and unqualified members of the public to handle tools and 'try out' some P-way tasks.
Tasks include:
* Fitting Pandrol clips to baseplates;
* Tightening/Loosening of fishbolts;
* Shovelling ballast;
* Handling P-way tools.

Department: Permanent Way
Date Of Assessment: 12 September 2024
Review Due Before: 20 September 2027
Lead Assessor: Paul Fuller (P-way)
Team: Kevin Jarvis (Process Assurance), Colin Charman (Safety)

Youths trying P-way tasks

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 Incorrect handling of tools. Weight of tools. Incorrect use of tools.	Public	1) CRITICAL - Administrative: Anyone who wishes to use the tools must only do so with their parents present and with their parents permission (for safeguarding purposes) - Effective 2) CRITICAL - Administrative: A member of the P-way team must instruct and supervise the person using the tools, showing them the correct way to handle the tool and the correct way to use the tool. - Effective 3) CRITICAL - Administrative: P-way team must ensure the tool is suitable for the job and that it engages properly each and every time. - Effective 4) CRITICAL - Administrative: To prevent tripping hazards, boundaries around activities to be clearly set and briefed to all before any activity starts - Improvable	3 x 2 = 6 Medium - Risk to be minimised and controlled so far as is reasonably practical.	1) Elimination: If a tool becomes defective, it must be withdrawn from use for the duration of the event and returned to the stores to be 'red-tagged'. - Effective 2) Elimination: No power tools are to be started or used during the event. They can be put on show and can be handled (considering manual handling risks) but they must not be started (noise, HAVS, fumes and injury risks eliminated). - Effective 3) Administrative: First Response Team to be available for duration of event to attend to potential injuries, such as slips, trips and falls, cut or bruised fingers, etc. If no First Response or general First Aider available on site, tasks must cease. - Effective	2 x 2 = 4 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	n/a
Health and Safety	Manual Handling Weight and use of tools	Public	1) CRITICAL - Administrative: Use of correct lifting methods; to be advised to youth/parent by P-way team member - Effective 2) Administrative: Assistance of other persons for lift; parent to assist young person if required. - Effective 3) CRITICAL - Administrative: Additional Supervision; P-way team to advise on tool type and correct way to handle them. - Effective	3 x 2 = 6 Medium - Risk to be minimised and controlled so far as is reasonably practical.	1) Administrative: Manual Handling Training - P-way team to advise on correct way to lift and use tool - Effective	2 x 2 = 4 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	n/a

Handling tools

Type	Hazard Cause	Persons Affected	Control Measures	L S T Overall	Additional Control Measures	L S T Overall	Owner/Action
Health and Safety	Oil/grease present on tools P-way tools get dirty, oily and greasy through use. Risk of transfer of oil and grease to public through handling of tools.	Public	1) Elimination: Disposable gloves to be provided for members of the public to wear before handling tools - Effective 2) Engineering: Tools to be cleaned before public can use them - Effective 3) Engineering: Hand wipes to be made available in case of any grease or oil transfer - Effective	3 x 1 = 3 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	None	n n n	n/a

Type	Hazard Cause	Persons Affected	Control Measures	L S T Overall	Additional Control Measures	L S T Overall	Owner/Action
Health and Safety	Manual Handling Weight of tools	Public	1) Administrative: Use of correct lifting methods; young people to be supervised by their parents (also for safeguarding purposes) - Effective 2) CRITICAL - Administrative: Additional Supervision; P-way team to advise on tool type and correct way to handle them. - Effective 3) Administrative: Assistance of other persons for lift; parent to assist young person if required. - Effective	3 x 2 = 6 Medium - Risk to be minimised and controlled so far as is reasonably practical.	1) Administrative: Manual Handling Training - P-way team to advise on correct way to lift and use tool - Effective	2 x 2 = 4 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	n/a
Health and Safety	Power tools Noise, HAVS, Fumes, etc. from petrol-driven machinery	Public	1) CRITICAL - Elimination: No power tools are to be started or used during the event. They can be put on show and can be handled (consider manual handling risks) but they must not be started (noise, HAVS, fumes and injury risks eliminated). - Effective	1 x 2 = 2 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	None	n n n	n/a

Power Tools

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 Noise, HAVS, Fumes, etc. from petrol-driven machinery	Public	1) CRITICAL - Elimination: No power tools are to be started or used during the event. They can be put on show and can be handled (consider manual handling risks as per other activity control measures) but they must NOT be started (noise, HAVS, fumes and injury risks eliminated). - Effective 2) CRITICAL - Engineering: To mitigate environmental concerns regarding leakage of oil, grease, petrol or two-stroke mix from machinery, spill kit and wipes to be made available for use if required. - Improvable	2 x 2 = 4 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	None	2 x 2 = 4 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	n/a

Tripping hazards

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 Tripping over tools or track materials on display	Everyone	1) Engineering: To prevent tripping hazards, boundaries around activities to be clearly set and briefed to all before any activity starts - Improvable	3 x 2 = 6 Medium - Risk to be minimised and controlled so far as is reasonably practical.	1) Substitution: If necessary, any area which may pose high risk of personal injury to be taped off. - Improvable	2 x 2 = 4 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	n/a

COSHH Assessments

The following COSHH assessments are applicable to this risk assessment:

• COSHH-43991-20 - Petrol (Euro95 unleaded)

Ends