

Task Risk Control Sheet

Use of Rail Grinders

RCS No: NR/L3/MTC/RCS0216/SP14
Issue: 2

Key Risks !

- Re-fuelling – Fire/Explosion
- Burns
- Manual Handling
- Noise
- Abrasive Wheels
- Vibration

Personnel Involved

E&P

S&T

Track

Off Track

Property

✓

Tools / Equipment

Rail Profile Grinder, Switch Grinder

Plant

None

Key Risks	Controls	Implemented By
All Tasks – Pre - use checks	• Planned preventative maintenance programme shall be in place for equipment	Line Manager
	• Pre-inspect equipment including checking against inspection date on tag.	Staff
	• Only trained and competent staff shall operate grinders	Team Leader
Re-fuelling– Fire / Explosion / Sparks and Debris	<ul style="list-style-type: none"> • See Risk Control Sheet NR/L3/MTC/RCS0216/GA17 - Decanting Fuel and Fuelling Small Plant for fuelling small plant • One 2kg Dry Powder fire extinguisher shall be available when fuelling grinders • Remove flammable debris from work area • Exclusion zones shall be set up around the work area, staff within the exclusion zone shall wear the same PPE as the user 	Team Leader
Burns	<ul style="list-style-type: none"> • Avoid any contact with the hot parts of the engine particularly the exhaust • Users shall wear flame retarding clothing to EN531 	All Staff
Manual Handling	• See Risk Control Sheet NR/L3/MTC/RCS0216/GH01 – Manual Handling	All Staff / Team Leader
Abrasive Wheels	<ul style="list-style-type: none"> • See Risk Control Sheet NR/L3/MTC/RCS0216/SP01 - Use of Abrasive Wheels and Disc Cutters • Users shall wear dust mask to EN149 	Team Leader/ All Staff
Eye Injury	<ul style="list-style-type: none"> • Users shall wear correct eye protection to BS EN166 1.B whilst using the grinders • An exclusion zone shall be set up around the grinding activity 	All Staff
Accidental contact with Grinding wheel	<ul style="list-style-type: none"> • Grinding machine shall only to be started when rail mounted • Grinding stone shall be drawn up into casing at the end of each grinding operation (profile grinder) or returned to vertical position (switch grinders) 	All Staff

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Key Risks	Controls	Implemented By
Noise	<ul style="list-style-type: none"> • Ear protection to EN352 shall be worn when using grinding machines • The noise level at the operators ear for grinders is between 90 and 96dB • Hearing protection shall be worn by any non-operators within 6m of grinding • Switch off the plant when not in use • Refer to SMF/SE/0311 Small Plant HAVS & Noise Data Sheets for further information 	
Vibration	<ul style="list-style-type: none"> • Rotate staff to reduce exposure or include rest periods as required • Gloves may help to prevent vibration injury by keeping hands warm and dry. Anti vibration gloves are not a control factor • Do not bridge anti vibration handles • Example amounts of work to meet EAV & ELV:- <ul style="list-style-type: none"> ○ EAV: 3 welds (MP12 or equivalent) <ul style="list-style-type: none"> ▪ 1.5 hrs plain line grinding (MV3 or equivalent) ▪ 1 hr switch grinding (MC3 or equivalent) ○ ELV: 12 welds (MP12 or equivalent) <ul style="list-style-type: none"> ▪ 6 hrs plain line grinding (MV3 or equivalent) ▪ 4 hr switch grinding (MC3 or equivalent) • Refer to SMF/SE/0311 Small Plant HAVS Data Sheets for further information 	Team Leader

PPE Required by NR / Maintenance Policy

				<p>If safety glasses introduce a risk (ie weather conditions) then the Team Leader shall assess the risk. The outcome of the assessment shall be recorded on the SSOWPS pack and safety glasses may be removed.</p> <p>This does not supersede the requirements for eye protection detailed on relevant Task Risk Control Sheets.</p>
Wear Head Protection	Wear Foot Protection	Wear Hi Visibility Clothing	Wear Safety glasses to BS EN166.F	

Additional PPE Required by Task Risk Control Sheet

						
Wear Hand Protection	Wear Dust Mask to BS EN 149	Wear Hearing Protection	Wear Safety goggles to BS EN166.B	Wear Flame Retardant Protection BS EN 531		