

# Task Risk Control Sheet



**Working with On Track Machines  
Rail Grinders**

**RCS No: TCS008  
Issue: 2**

	<ul style="list-style-type: none"> <li>Grinding in Possessions</li> <li>Grinding in Tunnels</li> <li>Fire</li> <li>Grinding in Electrified areas</li> <li>Working in the vicinity of OHL</li> <li>Noise/ Dust / Fumes</li> </ul>	<b>Personnel Involved</b>	E&P	
			S&T	✓
			Track	✓
			Off Track	✓
			Property	

<b>Plant / Engineering train</b>	Rail Grinders	C21, C44, SPML, Speno
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Key Risks	Controls	Implemented By
<b>General communications</b>	ES shall confirm that prior to them starting work the OTM Operator receives an appropriate safety brief for their role and activities within the worksite.	ES
<b>Level Crossing Failure</b>	<ul style="list-style-type: none"> <li>Communication between Route Conductor, Machine driver, Signaller and PICOP via verbal, hand held radio and GSMR methods.</li> </ul>	PICOP / Rail Grinding Supervisor / Operators
<b>Grinding on track &amp; in possessions</b>	<ul style="list-style-type: none"> <li>Spark guards shall be used</li> <li>Grind stone inspection procedure and pre use checks</li> <li>Remove 'sharks teeth' to reduce build-up of grinding slag</li> <li>Deploy spill kit in the event of failure</li> <li>Operation shall be in accordance with CTRL Rule Book, SRO Procedures, site instructions and exclusion zones</li> <li>Carry out work in accordance with Section T of the Rule Book</li> </ul>	Rail Grinding Supervisor / Operators
<b>Grinding in Tunnels</b>	<ul style="list-style-type: none"> <li>Use of water spray bars, water cannon</li> <li>Carry out a pre-grinding risk assessment</li> <li>COSS / SWL shall brief all staff on the SWP for the work within the tunnel including the limited of the exclusion zone.</li> <li>A Risk Assessment shall be undertaken to assess air flow in the tunnel versus the production of dust and fumes by the machine. Where appropriate ventilation shall be provided.</li> <li>Egress - A Risk Assessment shall be undertaken for emergency evacuation in the event of an emergency such as fire or injury.</li> <li>Risk Assessment shall be undertaken as to the proximity of the work to Electrical Conductors and isolations taken as appropriate.</li> </ul>	COSS / SWL Rail Grinding Supervisor / Operators
<b>Fire – on the infrastructure</b>	<ul style="list-style-type: none"> <li>Comply with risk assessments highlighted within the SSOW Pack.</li> <li>Deploy spark guards.</li> <li>Maintain spark blankets.</li> <li>Grinders shall be rotated accordingly so as to direct all sparks to the 4ft.</li> <li>Damp down vegetation and line side equipment whilst grinding, and maintain water suppression equipment.</li> <li>Train staff on the use of the water cannon.</li> <li>Stop grinding if the possibility of fire is identified.</li> <li>Maintain communication procedures in accordance with the Rule Book at all times</li> <li>Once minimum level of water for grinding is reached, stop grinding</li> <li>Rear cab fire marshal shall remain vigilant for fires or potential fires</li> </ul>	Rail Grinding Supervisor / Operators

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	and stop grinding and attempt to extinguish fire with cannon or hand held fire extinguishers.	
<b>Fire – on the grinding machine or in Tunnel</b>	<ul style="list-style-type: none"> <li>• Comply with danger assessments highlighted within the SSOV Pack.</li> <li>• Maintain and document machine specific fire suppression systems.</li> <li>• Routinely check fire extinguishers during works.</li> <li>• Maintain communication procedures in accordance with the Rule Book at all times.</li> <li>• Store all combustible materials in the correct manner and protect them from heat or sparks.</li> <li>• Store CoSHH items in accordance with the MSDS.</li> <li>• Network Rail No Smoking Policy to be adhered to.</li> <li>• Strict maintenance regime of hydraulic, fuel Regular Fire Drills</li> <li>• Maintain head and hand held Torches at all times,</li> <li>• Apply tunnel Risk assessment. Request removal of unneeded obstacles.</li> <li>• Use SPML machines to carry out specific pre tunnel grinding preparation</li> <li>• Block all lines in tunnel bore to traffic</li> <li>• COSS shall maintain a safe area around the Grinder</li> </ul>	COSS / SWLRail Grinding Supervisor / Operators
<b>Grinding in Electrified Areas</b>	<ul style="list-style-type: none"> <li>• Personal Track Safety (PTS) Certificate to include DC/AC Electrified Lines.</li> <li>• Adhere to the SWP Pack.</li> <li>• Comply with the COSS / DP Brief.</li> <li>• Comply with the Operational Brief</li> <li>• Transiting, working moves and grinding on OLE electrified lines</li> <li>• Comply with the Rule Book GE/RT8000/AC-DC.</li> <li>• Provide Fire Fighting Training to all Operational Rail Grinding Staff.</li> <li>• Carry out and document regular fire drills</li> <li>• Regularly check vertical movement of the cannon</li> <li>• Staff shall be competent in the Communication procedures to the Signaller and ECO to switch power off</li> <li>• Strictly controlled and monitored settings of a maximum field angle on third rail that shall not exceed -13°.</li> <li>• Lift the carriages if equipment gaps are found to be inadequate.</li> <li>• Operated under T3 with a B3 isolation.</li> <li>• Comply with the Operational Brief</li> <li>• Transiting, working moves and grinding on D.C electrified lines</li> </ul>	COSS / SWL Rail Grinding Supervisor / Operators
<b>Noise</b>	<ul style="list-style-type: none"> <li>• Correct use of authorised PPE, including approved and appropriate hearing protection.</li> <li>• Observe the agreed Exclusion zone.</li> </ul>	All Staff
<b>Vibration</b>	<ul style="list-style-type: none"> <li>• Use suspensions seats.</li> </ul>	Grinding machine supervisor
<b>Diesel Fumes</b>	<ul style="list-style-type: none"> <li>• Exclusion zones around equipment of 3 metres for staff not working on the machine.</li> </ul>	Grinding machine supervisor
<b>Dust Exposure</b>	<ul style="list-style-type: none"> <li>• Use FFP3 RPE as required per specific risk assessment / task risk control sheet.</li> <li>• Use extraction where available.</li> </ul>	Grinding machine supervisor
<b>Laser Operation</b>	<ul style="list-style-type: none"> <li>• Screen/shield lasers on machines.</li> </ul>	Machine Operator/Driver
<b>Legionella</b>	<ul style="list-style-type: none"> <li>• Empty tanks and refill with fresh water daily</li> <li>• Take precautions when atomising water</li> <li>• If water has been stagnant in the heat, drop water and refill.</li> </ul>	Grinding machine supervisor

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<b>Chemical spills</b>	<ul style="list-style-type: none"> <li>•Carry and deploy spill kits to be carried and deployed</li> <li>•Emergency plan shall be contained on Safe System of Work</li> <li>•Spill kit training undertaken by all operators</li> </ul>	COSS / SWL Rail Grinding Supervisor / Operators
<b>Slips, Trips &amp; Falls</b>	<ul style="list-style-type: none"> <li>•Grated steps on machine</li> <li>•Use appropriate and maintained footwear</li> <li>•Use handrails for access and alighting at all times</li> </ul>	All staff

## PPE Required by NR / Maintenance Policy

 <b>Wear Head Protection</b>	 <b>Wear Foot Protection</b>	 <b>Wear Hi Visibility Clothing</b>	 <b>Wear Safety glasses to BS EN166.F</b>	<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 SWP's and safety glasses may be removed.</p> <p><b>This does not supersede the requirements for eye protection detailed on relevant Task Risk Control Sheets.</b></p>
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## Additional PPE Required by Task Risk Control Sheet

 <b>Wear suitable Face fitted RPE</b>	 <b>Wear hearing protection</b>	 <b>Wear Hand Protection suitable for the task</b>				
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