

Task Risk Control Sheet

Alumino Thermic Welding

RCS No: NR/L3/MTC/RCS0216/TK61
Issue: 2

Key Risks!

- Struck by Train (1)
- Electrocution (3)
- Fuelling (4)
- On Track Plant (9)
- Manual Handling (11)
- Slips, Trips and Falls (12)
- Noise (15)
- Adverse Weather (19)
- Hot Work

Personnel Involved

E&P	✓
S&T	✓
Track	✓
Off Track	✓
Property	✓

Tools / Equipment

Welding Equipment

Plant

RRV

Generator

Key Risks	Controls	Implemented By
Key Generic Track Risks	<ul style="list-style-type: none"> • See Generic Track Risks NR/L3/MTC/RCS0216/TK00 All except for 14 & 18 	
Electrocution	<ul style="list-style-type: none"> • See Risk Control sheets NR/L3/MTC/RCS0216/GA20 Working Adjacent to DC Electrified Rails Risk Level 1- 5, • See Risk Control Sheet NR/L3/MTC/RCS0216/GA021 - Working Near Electrical Overhead Line Equipment • When required, check that continuity bonds are fitted when working on the traction return rail in AC areas 	Line Manager / Team Leader / Staff
Airborne Particles e.g. dust, fumes and glare	<ul style="list-style-type: none"> • Exclusion zones shall be created and maintained • All staff shall receive a site specific briefing • Personal Protective Equipment e.g. eye / face protection and respiratory protective equipment shall be used • Stand up wind when weld has been tapped 	All Staff / COSS / Team Leader
	<ul style="list-style-type: none"> • Provide information on hazardous substances and control measures • Only trained and competent welders shall be used 	Line Manager
Working in sheer speed tent or beneath welding umbrella	<ul style="list-style-type: none"> • See Task Risk Control Sheets NR/L3/MTC/RCS0216/TK63 - Erection, Dismantling and Use of Welding Tents/Umbrellas & Support Clamps 	All Staff / COSS / Team Leader / Line Manager
Working in Confined Spaces	<ul style="list-style-type: none"> • See Task Risk Control Sheet NR/L3/MTC/RCS0216/GA09 - Entry Into Confined Spaces • All staff shall receive a site specific briefing • Propane shall not to be used • A Permit to Work System shall be put in place before work starts 	All Staff / COSS / Team Leader / Line Manager

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Fire / Explosion (from flames, hot slag waste, hot surfaces, etc)	<ul style="list-style-type: none"> Training and competence of welders including assessment All equipment shall be subject to a planned preventative maintenance programme 	Line Manager
	<ul style="list-style-type: none"> All staff shall receive a site specific briefing Welders shall perform pre-use checks before starting work to check that equipment is fit for purpose Flashback arrestors shall be used and cylinders turned off when not in use Hoses shall be purged and not coiled Leak detection spray shall be used to detect for any leakage Propane and acetylene cylinders shall be kept upright and secured Cylinders of petroleum spirit shall be kept away from ignition source The welding area shall be dry by pre-heating Components of greater than 70% copper shall not be used Propane shall not be used in confined spaces or tunnels Fire precaution instructions shall be available and briefed to all welders Waste hot material shall be placed in an area free of flammable material whilst cooling and prior to disposal Hot slag bowls shall be placed on a sand tray containing 25mm depth of sand 6kg dry power fire extinguisher shall be taken to site 	All Staff / COSS / 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	Use Welding Mask	Wear Hearing Protection	Wear Flame Retardant Protection	Wear Respiratory Protection		