Task Risk Control Sheet

Use of Cartridge Tools

RCS No: NR/L3/MTC/RCS0216/SP03
Issue: 2

Key Risks !

- **Inappropriate Use**
- **Incorrect fittings**
- **Recoil / Unintentional firing**
- **Explosion**
- **Faulty equipment**

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

Tools / Equipment	Cartridge Tools
Plant	None

Key Risks	Controls	Implemented By
Pre Use Check	• Regular inspection regime shall be in place for all cartridge tools	Line Manager
	• Conduct pre-work inspection by operator to check for obvious defects	Operator
Inappropriate use	• Cartridge tools shall only be used by operatives (aged 18+) trained and certified in use of the particular equipment and aware of hazards that may occur during operation • Operators shall be tested for colour blindness – Employees with colour blindness shall not operate cartridge tools, except under direct supervision	Line Manager
Ricochet and / or Flying Particles / Incorrect Fittings	• Use trained and competent operators only	Team Leader
	• All operators, assistants and other employees within exclusion zone shall wear the following personal protective equipment: ➢ Goggles to BS EN 166 1.B ➢ Hard Hat to BS EN 397 ➢ Gloves and Ear Defenders	Operator
	• Exclusion zone shall be established prior to operating	Team Leader
	• Avoid fixings close to edges • Do not use fixings close to failed attempts • Keep tool at right angles to the surface • Do not fix into unfamiliar materials without first checking their suitability for cartridge fixing • Only properly designed fixings to be used – Ordinary nails or screws shall not be used as a substitute in any circumstances	Operator
Through penetration of fixings	• Operator to check suitability of material for cartridge-fired fixing – A trial fixing using a low-powered cartridge should be performed if necessary • Assess the suitable cartridge strength	Operator
Use of Wrong Cartridge	• Operator shall check suitability of material for cartridge-fired fixing – A trial fixing using a low-powered cartridge shall be performed if necessary • Assess the suitable cartridge strength • Use correct cartridge which are colour coded dependent on strength in accordance with BS 4078-1 and BS 4078-2	Operator
Recoil of Cartridge at height	• A suitable working platform shall be provided • Adequate and safe footing shall be provided	Team Leader
	• Check recoil of cartridge tool prior to working at height	Operator

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Key Risks	Controls	Implemented By
Misfires	• After a misfire the cartridge tool shall be kept pressed in position against the workface for at least 30 seconds to allow for any delayed detonation • Follow the manufacturer's instructions for extracting the cartridge • Only use the proper extraction tool supplied by the manufacturer to remove misfired cartridges	Operator
Unintentional firing	• Only tools with a contact pressure safety device and a 'drop-firing' safety device to be used	Operator / Team Leader
Explosions	• Cartridge tools shall not be used in areas where a flammable atmosphere or risk of dust explosion may exist	Team Leader
Incorrect storage or issue of tools	• Cartridges to be stored in secure, dry and cool location, in a metal container in a locked cupboard • Identify and separate cartridges of different strengths, i.e. by colour • Use of different makes of cartridge tools shall be limited • Manufacturer's instructions on the safe use of cartridge tools shall be available for all operators	Line Manager / Team Leader
	• Tool shall be emptied of cartridges when stored	Operator
Noise	• Ear protection shall be worn when using cartridge tools • A hearing protection zone shall be created and enforced when cartridge tools used	Team Leader / Operator

PPE Required by NR / Maintenance Policy

Wear Head Protection

Wear Foot Protection

Wear Hi Visibility Clothing

Wear Safety glasses to BS EN166.F

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.
This does not supersede the requirements for eye protection detailed on relevant Task Risk Control Sheets.

Additional PPE Required by Task Risk Control Sheet

Wear Hand Protection

Wear Hearing Protection

Wear Safety goggles to BS EN166.B

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