



Hot Works

Warning

You cannot undertake this activity in the rail corridor unless you have completed a pre work brief and work site protection plan.

Reference should also be made to the [Protocol for Entering the ARTC Rail Corridor](#) and the [Business Rules for Working in the ARTC Rail Corridor](#)

Minimum Personal Protective Equipment (PPE) requirements must also be met in line with the [Personal Protective Equipment \(PPE\) Work Instruction](#).

Work Activity:	Hot Works			WMS No: WHS-WI-007
Coverage:	ARTC employees, and contractors directly managed by ARTC			Version No: 1.0
Developed by:	Corporate Work Health and Safety Manager	Approved by:	Executive General Manager Enterprise Services	Date Approved: 14 April 2016

<i>What are the tasks involved?</i>	<i>What are the hazards and risks?</i>	<i>What are the control measures?</i>	<i>Related Documents</i>
Plan the Work	<p>Not meeting Total Fire Ban requirements</p> <p>Unsafe equipment</p> <p>Unsafe work environment</p> <p>Fire Risks</p> <p>Not having suitable PPE</p> <p>Not having suitable first aid arrangements</p> <p>Manual Handling</p>	<p>Do not carry out any hot work:</p> <ul style="list-style-type: none"> - contrary to an instruction from a Fire Authority, - if the bushfire risk exposure is declared “catastrophic” - if a Total Fire Ban is in place, without having completed a Total Fire Bans – Hot Works Checklist <p>Check all equipment is in good working order.</p> <p>Ensure the work area is clear of any flammable materials</p> <p>Ensure suitable fire fighting equipment is available and ready to use. Appoint a fire watch person to extinguish spot fires if required.</p> <p>Confirm appropriate PPE requirements are in place</p> <p>Confirm first aid arrangements including access to running water or burns kits in the first aid kit</p> <p>Apply manual handling controls</p>	<p>Total Fire Bans Procedure</p> <p>Total Fire Bans – Hot Works Checklist</p> <p>Air and Power Tools Work Method Statement</p>



<i>What are the tasks involved?</i>	<i>What are the hazards and risks?</i>	<i>What are the control measures?</i>	<i>Related Documents</i>
Handling LPG / OXY / Acetylene	Impact of sparks or debris on containers Unsafe connections	Position cylinders securely and well away from any area that may be exposed to hot slag, sparks and/or falling or moving objects Check that at least one non-return valve and flashback arrestor is fitted for each gas line. Purge gas lines before use	Chemicals Work Instruction
Cutting Rail	Adverse impact on electrical infrastructure (signals, level crossing, interlocking) Impact of Sparks / Debris Unsafe equipment	Advise Signal Electrician of job location and scope of work, and obtain advice and/or request attendance if required Maintain at least a 5 metre exclusion zone around the work area (extend this if required to take account of sparks / debris) Work in line with nominated related documents	Air and Power Tools Work Method Statement Cut Rail Using Rail Saw Work Method Statement
Grinding Rail	Impact of Sparks / Debris Unsafe equipment	Maintain at least a 5 metre exclusion zone around the work area (extend this if required to take account of sparks / debris) Work in line with nominated related documents	Air and Power Tools Work Method Statement
Welding Rail	Impact of Sparks / Debris Hot Work Waste Unsafe equipment	Do not weld in wet or rainy conditions without effective cover Maintain at least a 5 metre exclusion zone around the work area (extend this if required to take account of sparks / debris) Set up a hot work crate or item to capture any hot work waste Work in line with nominated related documents	Air and Power Tools Work Method Statement Welding manuals, such as: - aluminothermic welding manual - wire feed welding manual



<i>What are the tasks involved?</i>	<i>What are the hazards and risks?</i>	<i>What are the control measures?</i>	<i>Related Documents</i>
Completion of work	Impact of Sparks / Debris Leaving site in unsafe condition	Check for any smouldering in the area when hot work is completed Clean-up site and remove all tools, equipment, and rubbish Re-check for any smouldering in the area before leaving (if required) complete any Total Fire Permit and/or notification of completion of works to the Local Fire Authority.	



References

Standards, Codes of Practice, Guidance:

[Code of Practice - Welding](#)

[Total Fire Bans Procedure](#) and [Total Fire Bans – Hot Works Checklist](#)

[Chemicals Work Instruction](#) and relevant Safety Data Sheets

[First Aid Work Instruction](#)

Relevant Manuals, such as:

- Aluminothermic Welding Manual
- Rail Repair using Wire Feed Welding Manual

AS 1336 – Eye and face protection - Guidelines

AS 4839 – The safe use of portable and mobile oxy-fuel gas systems for welding, cutting, heating and allied processes

Plant / Equipment / Tools:

Fire Fighting equipment

First Aid Equipment – consider burn kits if access to running water is limited

Consider additional PPE requirements as appropriate to the work, such as:

- eye and face protection
- heat resistant gloves
- knee protection
- respiratory protection (P2 mask, or see relevant safety data sheet)
- spats.

Relevant Equipment for the task, such as:

- rail grinder
- rail saw
- welding equipment

Training Requirements:

Check whether there are specific competency requirements for the work to be completed, such as for rail welding for example.

Check that workers have been briefed on and/or have reviewed relevant Operating Manuals and/or Safe Use Instructions for the specific tools they will use.

Inspection / Testing requirements:

Before starting work, check all equipment is in good working order.

Check flashback arrestors and non-return valves are fitted.