

Underground / Overhead Services (electrical and other services)

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](#).

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| Work Activity: | Underground / Overhead Services (electrical and other services) | | | WMS No: WHS-WI-004 |
| 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: 26 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> |
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| Work above electrical and other underground services | Hitting underground services | <p>Identify underground services and their locations:</p> <ul style="list-style-type: none"> - review plans and/or complete an ARTC Drawing Management System search - contact dial before you dig and/or relevant utilities - look for physical indicators of a service - use a service locator and/or conduct pot holing as appropriate to the work <p>Assess any special requirements to protect services. (for example, isolation requirements or any specific requirements for excavations)</p> <p>Mark service locations on site maps and physically mark locations where possible.</p> <p>Keep any ground penetrations close to services to a minimum.</p> <p>Keep any heavy movements over services to a minimum.</p> <p>Ensure a Responsible Person / Worksite Supervisor has contact information on hand for any relevant service companies</p> <p>Designate a safe area well away from services in the event of an emergency.</p> | Refer to relevant service companies as required |

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| Working under overhead services | Hitting overhead services | <p>Always look out for overhead services.</p> <p>Assess any special requirements to protect services. (for example, isolation requirements or specific requirements for working in proximity to services)</p> <p>Maintain a separation distance of 3 metres from power line for voltages up to 132KV and 8 metres for voltages greater than 132KV unless you have a suitable permit.</p> <p>If required, appoint a spotter to ensure that separation distances are not breached as work is completed.</p> <p>Ensure a Responsible Person / Worksite Supervisor has contact information on hand for any relevant service companies</p> <p>Designate a safe area well away from services in the event of an emergency.</p> | Refer to relevant service companies as required |
| Work in Electric Traction Corridors | Electric shock as a result of contact with or too close proximity to the electrical traction system | <p>Ensure workers have completed the ARTC Electrical Induction.</p> <p>Ensure the requirements of adjacent network owners are known and applied</p> | <p>The Protocol for Entering the ARTC Rail Corridor defines Electric Traction Corridors</p> <p>See also adjacent network owner requirements</p> |

| References | |
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| <p>Standards, Codes of Practice, Guidance:</p> <p>Code of Practice - Managing Electrical Risks in the Workplace</p> <p>Code of Practice - Excavation Work</p> <p>Australian Standard 1418: Cranes, Hoists and Winches series</p> <p>Adjacent Network Owner requirements (for work in railway electrical traction areas)</p> | <p>Plant / Equipment / Tools:</p> <p>Use plant / equipment fitted with height limiting devices if working in electric traction corridors.</p> |
| <p>Training Requirements:</p> <p>Check license requirements for any plant to be used and ensure that operators meet licensing requirements and are competent to operate the machinery.</p> <p>See also training and competency requirements for excavation work if required.</p> | <p>Inspection / Testing requirements:</p> |