



## IDENTIFYING UNDERGROUND SERVICES

**RA NO**

**DATE**

<b>H.T.I Score</b>	11	High Risk-Constant Supervision
<b>Contract</b>		
<b>Persons involved in RA</b>	<b>Name</b>	<b>Signatures</b>
Foreman		
Second Foreman		
Safety Officer		
Representative		

Documentation Required	Training Required	PPE and Safety Equipment Required
OHS Act and Construction Regulations	General induction - all employees	Overalls
Appointment 6(1)	Toolbox talks	Safety Footwear
Appointments Plant/ Vehicle Operators	First Aider	Gloves
Appointment First Aider		Fire Extinguisher
Competency Operator		
Competency First Aider		
Plant/ Vehicle registers		
Excavation Permit		

	Activity Steps	Hazards and Risks	Preventative Measures	Rating
1	Identifying underground services	<p>If services are not identified prior to operations they may be damaged. Interruption of electricity, gas, water, sewerage, telephonic services to the community.</p> <p>Damage to property due to explosions or fire.</p> <p>Environmental damage from spillages</p> <p>Injury to persons due to explosions, fire, electrocution or asphyxiation due to exposure to gas</p>	<p>Services must be identified prior to excavation starting. An excavation permit must be issued which indicates the location of these services. Liasson must take place with the relevant service providers: Eskom, Telkom etc</p>	11

2	Marking known services	<p>If the services are not marked, the operators/ employees will be unaware of the services and may damage them during operations. Interruption of electricity, gas, water, sewerage, telephonic services to the community.</p> <p>Damage to property due to explosions or fire.</p> <p>Environmental damage from spillages</p> <p>Injury to persons due to explosions, fire, electrocution or asphyxiation due to exposure to gas</p>	Known services must be clearly marked and all employees must be informed with regard to the hazards	11
3	Identifying suspected services	<p>If services are not identified prior to operations they may be damaged. Interruption of electricity, gas, water, sewerage, telephonic services to the community.</p> <p>Damage to property due to explosions or fire.</p> <p>Environmental damage from spillages</p> <p>Injury to persons due to explosions, fire, electrocution or asphyxiation due to exposure to gas</p>	<p>If it is suspected that there are possible underground services in the area of operations (unidentified on plans) they must be exposed using manual excavation methods. This task must be supervised constantly by a competent supervisor/ foreman</p>	11
		Employee may strike and damage electrical cables. Electrocution from contact with electrical cables.	Employees doing manual excavation must be issued with rubber soled safety boots and heavy duty rubber gloves . They must be informed with regard to the hazards. This task must be supervised constantly by a competent supervisor/ foreman	11
		Employee may strike and damage water pipe. Interruption of water services to the community.	Employees must be informed of the hazards and be told to proceed with caution. This task must be supervised constantly by a competent supervisor/ foreman	11
		Employee may strike and damage sewerage pipe. Damage to the environment from spillage	Employees must be informed of the hazards and be told to proceed with caution. This task must be supervised constantly by a competent supervisor/ foreman	11

		Employee may strike and damage telephone cables. Interruption of telephone services to the community.	Employees must be informed of the hazards and be told to proceed with caution. This task must be supervised constantly by a competent supervisor/ foreman	11
4	Informing the relevant service providers of construction activity in the area	If service providers are not informed of construction activities in the area they will be unable to respond timeously should damages occur. Delayed restoration of service to community. Damage could worsen due to delayed repairs, causing additional financial implications. Production loss	All service providers must be warned in advance of construction activities in the area	11