

## G1. Safety Precautions

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### G1.7 Minimum Safe Distance

- G1.7.1 For work near or when conducting tests on a high voltage or traction voltage fixed electrical installation, a minimum safe distance must be maintained between any part of a person or any conductive tool being directly handled and exposed live parts: All

Work	Voltage	Minimum Safe Distance
Near	High	2 metres
	Traction 25kV a.c.	2.75 metres
	Traction 1500V d.c.	2 metres
	Traction 750V d.c.	
Conducting Tests	750V d.c.	250mm
	1500V d.c.	
	3.3kV a.c.	
	11kV a.c.	600mm
	25kV a.c.	
	33 kV a.c.	

These minimum safe distances do **not** apply at authorised locations or on approved Engineer's train wagons and vehicles where adequate permanent protection or prominently visible physical separation is provided to prevent persons and equipment from coming into contact with the overhead line equipment.

- G1.7.2 If the minimum safe distance cannot be maintained, work must **not** start until a Permit-to-Work (High Voltage or Traction Voltage), Sanction-for-Test or Isolation Record Form, as appropriate, is issued. All
- G1.7.3 Before a safety document is issued, a complete understanding on the switching, isolation and earthing arrangements must be reached between the issuer and the recipient. The issue, transfer and cancellation of a safety document must be made in person except for Isolation Record Form of which the issue and cancellation may be made remotely. All