



# Definitions: Grounding and Bonding

TEMPORARY POWER SOURCES

## GROUNDING

Grounding is a permanent and continuous conductive path to the Earth with sufficient ampacity to carry any fault current that may be imposed on it, and of sufficient low impedance to limit the voltage rise above ground and to facilitate the operation of the protective devices in the circuit. Grounding shall be accomplished by methods noted in section 10 and 66 of the Canadian Electrical Code and/or section 3.2.6 of the ESA Spec 003 booklet which can be downloaded from the Electrical Safety Authority's website at: [https://www.esasafe.com/assets/files/esasafe/pdf/Guidelines/ESA\\_Spec-003\\_R7.pdf](https://www.esasafe.com/assets/files/esasafe/pdf/Guidelines/ESA_Spec-003_R7.pdf)

## BONDING

The bonding of the system is the low impedance connection of all non-current carrying metal parts together to assure electrical continuity and having the capacity to safely conduct any current likely to be imposed on it. It is connected to the ground at the system's source. For more information refer to Section 10 of the Canadian Electrical Code and the ESA Spec 003 booklet which can be downloaded from the Electrical Safety Authority's website at: [https://www.esasafe.com/assets/files/esasafe/pdf/Guidelines/ESA\\_Spec-003\\_R7.pdf](https://www.esasafe.com/assets/files/esasafe/pdf/Guidelines/ESA_Spec-003_R7.pdf)

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