

Regulated Electrical Work

Regulated work refers to any work that is regulated under the [Safety Standards Act](#). ***All regulated work must be performed by qualified personnel.***

Many projects and research activities in Mech involve designing and using equipment that is run on electrical power. In BC, electrical work is regulated by the [Safety Standards Act: Electrical Safety Regulation](#) and can only be carried out by persons qualified by Technical Safety BC. Unqualified persons are limited to working with Class 2 power source.

The Canadian Electrical Code (CSA C22.2) defines a Class 2 power source as:

Voltage	Wattage	Current
0 to 20 V	100 W	5 A
21 to 30 V	100 W	3.3 A
31 to 150 V	0.5 W	5 mA

*Note: A standard 120 V wall outlet is **not** considered a Class 2 power source, thus is outside the allowable limits for an unqualified person. In addition to the power limitation, a Class 2 power source must remain separated from the line voltage conductors. Unlike a Class 1 power source, it can be installed without a conduit.*

Additionally, the BC Safety Standards Act requires that all electrical equipment used in BC must be certified to be in compliance with the Canadian Electrical Code and has a mark indicating it meets CSA standards. Approved markings can be found [here](#).

Resources

[Technical Safety BC](#)

[TSBC - Electrical Regulations](#)