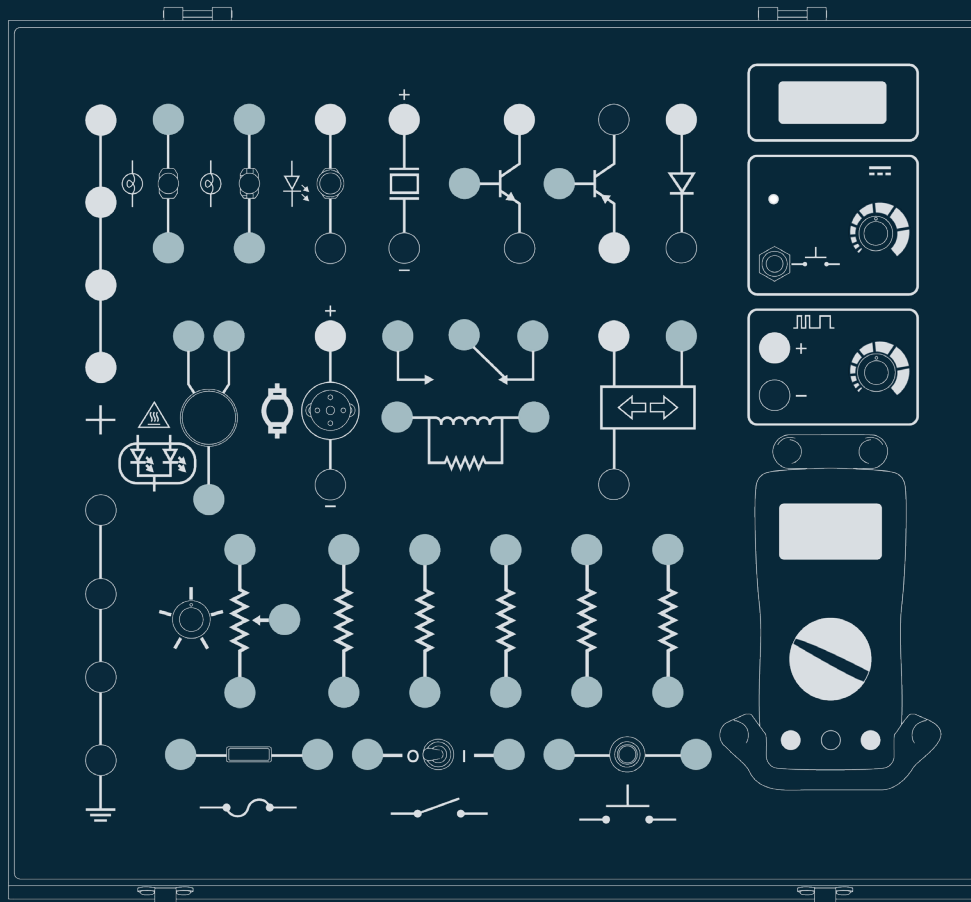




# Ohm's law and DC circuits trainer





The CL-1919-06 Ohm's Law & DC Circuits trainer is a self-contained educational learning system designed to assist instructors in teaching students basic electrical and electronic theory. It is designed to help teach Ohm's Law basics as well as demonstrating common electrical system components and circuit operation. A student project manual provides circuit construction and learning assignments designed to help students learn. The trainer is protected with a removable metal cover. The case features a carrying handle and has internal storage for jumper test leads and power cord.

## EDUCATIONAL ADVANTAGES

- Self-contained package with built-in internally protected power supply.
- Student curriculum provides learning assignments for circuit construction and understanding.
- Built-in Fluke DMM for electrical measurements and diagnosis.
- Can be used to assist the instruction of operational theory of DC electrical/electronic circuits and components.
- Meets many of the DC Electrical/Electronic tasks for NATEF, Alberta and Red Seal curriculums.
- CSA certified for US and Canada

## FEATURES

- Requires 120VAC to operate, outputs 2-14VDC (4A max).
- Panel mounted Digital Readout showing trainer DC voltage.
- Hinged and removable top cover.
- Built in DMM (Digital Multi-meter).
- Fluke meter that is powered with two AAA replaceable batteries
- Adjustable 2KHz pulse width modulation generator (0-100%).

The following electrical components are included :

- |                                  |  |
|----------------------------------|--|
| - 2 #194 Light bulbs (removable) | - 1 Electronic flasher                     |
| - 1 #3157 LED bulb (removable)   | - 1 75Ω Potentiometer                      |
| - 1 #2726 LED bulb (removable)   | - 5 Resistors (1-2Ω, 2-20Ω, 1-40Ω, 1-100Ω) |
| - 1 Buzzer                       | - 1 Fuse (removable)                       |
| - 2 Transistors (NPN and PNP)    | - 1 SPST Toggle switch                     |
| - 1 Diode                        | - 1 N.O. Push button switch                |
| - 1 Motor1- ISO 5-pin relay      |  |

- Each component has circuit connection receptacles for jumper wire hookup.
- Included are test jumper wires and power cord.
- Includes a comprehensive user's manual with student activity assignments which cover basic electricity, Ohm's Law principles, basic and advanced circuits.
- Curriculum covers multi-meter set-up, use and interpretation, electrical component operation and DC circuit construction and operation. Additional manuals available at no charge after trainer purchase at [www.consulab.com](http://www.consulab.com)
- Manual contains competence measuring tests to evaluate student comprehension.





**TECHNICAL  
INFORMATION**

- 120VAC, 2-14VDC 4A regulated and protected power supply (adjustable).
- Adjustable 2KHz pulse width modulation generator (0-100%).
- All components internally protected from excessive current due to connection errors by students.
- Dimensions: 16.75 x 18 x 5.25 inch (42.5 x 47.72 x 13.3 cm) / 22 x 20 x 10 inch (55.9 x 50.8 x 25.4 cm) with packaging.
- Weight: 26 lbs (11.8 kg) / 29 lbs (13.2 kg) with packaging.

**CLASSROOM  
PACKAGE OF OHM'S  
LAW AND DC CIRCUITS  
TRAINERS #CL-1919-  
12\_053340**

The package includes the following components :

- Twelve (12) CL-1919-06\_053327 Ohm's Law and DC Circuits Trainers
- One (1) CL-1919-06-12\_053154 Storage Cabinet
- Ten (10) extra Red Jumper Leads (20 in / 50 cm) (#04542N)
- Ten (10) extra Black Jumper Leads (20 in / 50 cm) (#04517N)
- Twelve (12) extra Fuses (200 mA, 250 V) (#02056)
- Twelve (12) extra #194 Light Bulbs (L1 & L2) (#02697)
- Twelve (12) extra #3157 LED Bulbs (L3) (#02711-02)
- Twelve (12) extra #2726 LED Bulbs (D1) (#02726)

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