

**AUTOMOTIVE LIGHTING SYSTEM TRAINER**

Includes 24 learning modules for a total of 25.5 hours of instruction with

**ELECTUDE**

Designed for complete, safe and protected circuit accessibility for teaching complex electrical systems & diagnostic strategies, while maximizing lab space utilization and minimizing teacher setup and prep time.

- Teach automotive lighting hands on with students physically wiring circuits.
- Liberate yourself from tedious, lengthy explanations and setup required by others.
- Challenge your students with included basic, intermediate and advanced exercises.
- Teach electrical diagnosis effortlessly inserting individual or combination of 12 circuit faults.
- Students can begin building circuits with less than 5 minutes of introduction.
- Available double-sided trainers maximize student engagement and space utilization.
- Robust design allows students to make mistakes without damage to the trainer.
- Accumulation of best practices from 50 years of teaching electrical systems.
- Utilizes the “Moduponent®” design feature which allows unlimited expansion capabilities. Other 1918 series trainers include Heavy Vehicle, Multiplexing and Motorcycle systems.

- **Operation manual**
- **Student manual** correlated to NATEF tasks with student assignments and activity sheets.
- **Instructors manual** includes answer keys and schematics indicating fault locations and circuit operation.

These manuals are available on our website as a down-loadable PDF file (paper versions also available for purchase):

Instructor training sessions can be delivered face to face at your location or in our classroom. We can also provide web based product familiarity training.



## Educational Advantages

- Students can build a complete automotive lighting system or individual circuits
- Includes: Head, Park-Tail (LED), Stop (LED), CHMSL(LED), Backup, License Plate, Side Marker, Hazard & Turn (LED), horn, Ignition Switch and Fuse Box
- Students learn from “hands-on” assignments and activities written at three different competence levels
- Can easily be used for instruction of Ohm’s and Kirchhoff’s Law’s
- Fault box provides “real-world” problems requiring diagnosis and repair procedures
- Uses industry standard electrical wiring diagrams

## Components List

- **CL-1918-01A** Front Lights Moduponent® (#53143)
  - Incandescent headlamps with low/high beam.
  - LED turn signals.
  - Incandescent marker lamps.
  - 2 ISO 5 pin relays.
- **CL-1918-02A** Control Panel Moduponent® (#53024)
  - Ignition, hazard, brake, backup, horn, and multi function switches.
  - Horn
  - Electronic flashers for both hazard and signals.
  - 8 fuses.
  - Removable 5 pin mini relay.
  - Standard 5 pin ISO relay.
  - Indicator lamps.
  - Fault box.
- **CL-1918-03A** Rear Lights with turn/brake lights Moduponent® (#53141)
  - LED turn signals, brake/tail, reverse, center high mount stop lamps.
  - Incandescent marker and license lamps.
- **CL-1918-12C** Set of 83 jumper wires (#53169) (1)
- **CL-1918-11** 120VAC to 12VDC CSA/UL approved 30A power supply (#92564) (1)

## Technical Information

- Input voltage: North America 120VAC 60Hz, others: 220VAC 50Hz.
- Available in English and French.
- Dimensions: 29” (73.6 cm) W x 31” (78.7 cm) L x 73” (185.4 cm) H / 48” (121.9 cm) W x 40” (101.9 cm) L x 79” (200.6 cm) H w/packaging
- Weight: 177 lb (80.4 kg) / 237 lb (107.7 kg) w/packaging

## Features

- 4mm sockets for wiring circuits
- 2mm sockets for testing circuits
- Standard automotive components are used.
- Upright stand will fit through a standard door.
- 4 swivel casters with 2 locking casters.
- Stand is made of steel and is powder coated.
- Wire holders included
- Drawer for each side
- Power supply is integrated into the trainer.
- CSA/UL approved 30A power supply

## Buyers Guide

- Available single sided (#53170) or double sided (#53171)
- Meter test points located at lights for diagnostic procedures
- Electronic fault box with 12 faults.

## Options

- **EM-1200-1918** Dust Cover (#24586-1)
- **CL-1918-10S-02** Table Stand (#52547-1)
- **CL-1918-3U** Upgrade Kit (#52514-2) — This upgrade kit converts a single sided trainer to a double sided.

