

**Los Angeles Valley College
Course Level Student Learning Outcomes (SLO)**

Course Name and Number: Introduction to Electronics; EL-2.

Course Objectives: (List the course objectives as they appear in the course outline of record.)

Course Description:

An overview of the field of applied electronics and of its employment opportunities. Introduction to components, nomenclature, and symbols. A familiarization of equipment, specifications, and physical units.

Solve basic series and parallel circuit problems.

Identify schematic symbols and describe the operation of represented components.

Use basic types of meters to obtain voltage and current measurements.

Establish 1–2 course level student learning outcomes and indicate how each SLO will be assessed.

Course Level Student Learning Outcome	Assessment Measure
Construct a working circuit from a schematic drawing.	Using standard written test procedures, the student will be able to identify the 12 basic electronic components by their schematic representation. Using solderless circuit board, the student will be able to construct a simple circuit using resistors connected in series and parallel. Using a DMM to measure resistance in ohms, a student will determine the value of ten randomly chosen resistors. Using a DMM to measure voltage, a student will determine the voltage output of a randomly chosen set of values from a DC power supply. Using a DMM to measure current, a student will determine the current output in a set of five DC circuits.

	The student will be able to construct a “Troubleshooting Tree” for the selected final exam circuit project he or she will build.