

Subject Area:
Programmable Logic Controller Panel Wiring
Title:
PLC Wiring
Teacher:
School:
Paris Junior College
Lesson Objective(s) & Career Cluster:
To learn how to install PLC's in control panels.
Activity:
Students will be assigned to properly connect wiring to a trainer Programmable Logic Controller power supply and connect input and output terminals to various input and output devices.
Evaluation:
Each student will have to wire the PLC so as to make a motor run from a Start-Stop station with indicator lights that make it obvious that the motor is running, off or tripped. The wiring will also be evaluated for neatness, uniformity and consistency.
Extension/Modification and/or Instructional Methodology:
Students will be given a brief lecture on expectations for the wiring project and will see one demonstration of the correct wiring procedure. The students will then work in pairs to complete the wiring project.
SCAN Skills:
C1, C3, C5, C6, C7, C9, C15, C16, C17, C18, C19, C20, F1, F5, F7, F9, F10, F16
Cooperative Learning Ideas, TAAS, TEKS Competencies:
N/A
Team Project, Guest Speaker, or Field Trip:
Students will be taken on a field trip to DCS to see a large panel being wired. This will give an appreciation of the size of the project compared to the one we complete in the classroom.
Resources:
Standard electrical tools required of all Electronic and Electromechanical Technology students, but the primary tools will be wire cutters and strippers, screwdrivers and power drills and taps.