

**Western Dakota Technical Institute
800 Mickelson Drive
Rapid City, SD 57703-4018**

Master Syllabus

Course Number: IEL 129
Course Name: Introduction to Electrical Wiring Lab
Credits: 1
Contact Hours: 2 Lab

Course Description: This is a lab course intended to accompany the IEL 130 – Introduction to Electrical Wiring course. Through actual hands-on experiments on developed trainers in the lab, the student will be able to reinforce the concepts learned in IEL 130.

Prerequisites: IEL 132 and IEL 133
Textbooks: <http://bookstore.wdt.edu>

Materials: Drawing equipment including triangles, straight edge, French curve, and templates

Student Learning Outcomes:

- Validate voltage measurements
- Demonstrate proper wiring installation techniques and wiring of receptacles, switches, and luminaries
- Interpret the NEC Articles on how they relate to circuits in the lab
- Interpret wiring plans
- Construct a simple electrical layout and electrical panel schedule

Assessment: Life skills, analytic skills, communication skills, technology skills, teamwork skills, social values, and employability will be assessed throughout this course.

ADA Accommodations: Students Rights to Assistance or Accommodations: Western Dakota Technical Institute (hereinafter WDT) does not discriminate on the basis of disability. If you have a disability as defined by federal or state law, including a temporary disability related to pregnancy and/or parenting as a result of a medical necessity due to childbirth, WDT will provide reasonable accommodations including but not limited to architectural access, aids and services necessary for effective communication, and modification of its policies and procedures. Students with a disability who are requesting an accommodation should contact your instructor and the Student Success Director who serves as the disability coordinator as early as possible in the semester.

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