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

Master Syllabus

Course Number:IEL 213Course Name:Electrical Heating and AppliancesCredits:2Contact Hours:1 Lecture, 2 Lab

Course Description: This course will provide the student with an understanding of electrical heat and electrical heating control circuits. Installation, maintenance, and troubleshooting of electrical heating systems are an important component of an industrial electrician's career. This course will also introduce the student to air conditioning and heat pump operation as well as the essentials needed to understand control systems on gas and oil heating systems.

Prerequisites: IEL 132, IEL 133

Textbooks: <u>http://bookstore.wdt.edu</u>

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

Student Learning Outcomes:

- Evaluate electrical heating and air conditioning circuits
- Construct common electrical heating and air conditioning circuits
- Troubleshoot commonplace problems in electrical heating and air conditioning circuits

Assessment: Students' analytical skills, technology skills, 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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