

Electrical I

TEDT - 1100 102

Course Description

This course covers basic shop skills. It gives the student, the background and working knowledge of safety that is required by the diesel industry. This course also introduces the student to the proper selection and use of tools and measuring devices that a technician will use for performing quality heavy-duty truck service.

Semester: All

Course Student Learning Outcomes

- Identify electrical systems associated with diesel vehicles.
- Explain basic electrical circuits and how they work.
- Discuss battery, starting circuits, and charging systems and their proper function.

ACTIVE

Engagement Plan

- I will respond to email within 48 hours. I will offer feedback on major assignments within 24 hours. The best way to contact me is ddyer7@bruinmail.slcc.edu, as I will prioritize this email over other modes of communication.
- We will be meeting every weekday in the classroom of a lecture in class 1.5 -2 hours a day then we will go the lab for practical exercises pertaining to the class lecture. we will be in the lab approximately 3-4 hours daily.

- Lastly, we'll be holding small group Q & A sessions, where we can learn from our peers (and faculty) on some of the more difficult units within the course.

Keys for Success (how to succeed in the course)

Safety is paramount anyone engaging in unsafe acts that could harm themselves, other students, or the instructors and staff will be removed from the program.

Attendance is key to your success it will be 20 percent of your grade. If you need take any time off let the instructor know. If you get sick and cannot come to class, be sure to communicate with your instructor. If you miss more than three days consecutively you will be dropped from the class and you will need to reapply for the class. If you miss the first two days you will be dropped from the class. If you decide to leave early without arranging an exception with your instructor, you will be marked absent for the day. If we are in the shop do not leave before concluding the shop exercise for the day or you will be marked absent

Brief Description of Assignments/Exams

You will have a lecture for 1.5-2 hours a day there will be modules that will need to be completed as homework. These modules are 5 question quizzes and end of chapter tests they will be factored as 20 percent of your grade

Attendance is 20 percent of your grade.

Lab work will be accompanied with lab sheets or competencies that will be 20 percent of your grade.

Lab final will take place during the last week of class and will be 20 percent of your grade.

Class final exam will be taken the last day of the class, and all work must be completed before the class final unless exceptions have been arranged with your instructor. the lab final is 20 percent of your grade.

Assignment Schedule

Due Date	Assignment Name	Assignment Type	Points
	Final Exam Form A	Quiz	40
	2-1 Quiz	Quiz	0
	2-2 Quiz	Quiz	0
	2-4 Quiz	Quiz	0
	2-5 Quiz	Quiz	0
	3-1 Quiz	Quiz	0
	3-3 Quiz	Quiz	0
	3-4 Quiz	Quiz	0
	3-5 Quiz	Quiz	0
	3-7 Quiz	Quiz	0
	5-1 Quiz	Quiz	0
	5-1 Quiz	Quiz	0
	5-10 Quiz	Quiz	0
	5-11 Quiz	Quiz	0
	5-2 Quiz	Quiz	0
	5-2 Quiz	Quiz	0
	5-3 Quiz	Quiz	0
	5-3 Quiz	Quiz	0
	5-4 Quiz	Quiz	0
	5-4 Quiz	Quiz	0
	5-5 Quiz	Quiz	0
	5-5 Quiz	Quiz	0

Due Date	Assignment Name	Assignment Type	Points
	5-6 Quiz	Quiz	0
	5-7 Quiz	Quiz	0
	5-8 Quiz	Quiz	0
	5-9 Quiz	Quiz	0
	6-1 Quiz	Quiz	0
	6-1 Quiz	Quiz	0
	6-10 Quiz	Quiz	0
	6-2 Quiz	Quiz	0
	6-2 Quiz	Quiz	0
	6-3 Quiz	Quiz	0
	6-3 Quiz	Quiz	0
	6-4 Quiz	Quiz	0
	6-4 Quiz	Quiz	0
	6-5 Quiz	Quiz	0
	6-6 Quiz	Quiz	0
	6-7 Quiz	Quiz	0
	6-8 Quiz	Quiz	0
	6-9 Quiz	Quiz	0
	Chapter 2 Pretest	Quiz	0
	Chapter 2 Test	Quiz	25
	Chapter 3 Pretest	Quiz	0
	Chapter 3 Test	Quiz	25

Due Date	Assignment Name	Assignment Type	Points
	Chapter 5 Test	Quiz	25
	Chapter 5 Test	Quiz	25
	Chapter 6 Test	Quiz	25
	Introduce Yourself	Discussion	0
	Introduce Yourself	Discussion	0
	Introduce Yourself	Discussion	0
	MHTS001 - Identify general shop safety rules and procedures.	Assignment	100
	MHTS0010 - Comply with the required use of safety glasses, ear protection, gloves, and shoes, during lab/shop activities.	Assignment	100
	MHTS0011 - Identify and wear appropriate clothing for lab/shop activities.	Assignment	100
	MHTS0012 - Secure hair and jewelry for lab/shop activities.	Assignment	100
	MHTS0015 - Locate and demonstrate knowledge of safety data sheets (SDS).	Assignment	100

Due Date	Assignment Name	Assignment Type	Points
	<u>MHTS0016 - Identify tools and their usage in automotive applications.</u>	Assignment	10
	<u>MHTS0017 - Identify standard and metric designation.</u>	Assignment	10
	<u>MHTS0018 - Demonstrate safe handling and use of appropriate tools.</u>	Assignment	25
	<u>MHTS0019 - Demonstrate proper cleaning, storage, and maintenance of tools and equipment.</u>	Assignment	25
	<u>MHTS0020 - Demonstrate proper use of precision measuring tools (e.g., micrometer, dial-indicator, dial-caliper).</u>	Assignment	10
	<u>MHTS0027 - Reports to work daily on time; able to take directions and motivated to accomplish the task at hand.</u>	Assignment	100

Due Date	Assignment Name	Assignment Type	Points
	<u>MHTS0028 - Dresses appropriately and uses language and manners suitable for the workplace.</u>	Assignment	100
	<u>MHTS005 - Utilize proper ventilation procedures for working within the lab/shop area.</u>	Assignment	100
	<u>MHTS006 - Identify marked safety areas.</u>	Assignment	100
	<u>MHTS007 - Identify the location and the types of fire extinguishers and other fire safety equipment; demonstrate knowledge of the procedures for using fire extinguishers and other fire safety equipment.</u>	Assignment	100
	<u>MHTS008 - Identify the location and use of eye wash stations.</u>	Assignment	100
	<u>Tasksheet MHTS001: Identify general shop safety rules and procedures.</u>	Assignment	10

Due Date	Assignment Name	Assignment Type	Points
	Tasksheet MHTS0010: Comply with the required use of safety glasses, ear protection, gloves, and shoes, during lab/shop activities.	Assignment	25
	Tasksheet MHTS0011: Identify and wear appropriate clothing for lab/shop activities.	Assignment	25
	Tasksheet MHTS0012: Secure hair and jewelry for lab/shop activities.	Assignment	25
	Tasksheet MHTS0015: Locate and demonstrate knowledge of safety data sheets (SDS).	Assignment	10
	Tasksheet MHTS0016: Identify tools and their usage in automotive applications.	Assignment	10
	Tasksheet MHTS0017: Identify standard and metric designation.	Assignment	10

Due Date	Assignment Name	Assignment Type	Points
	Tasksheet MHTS0018: Demonstrate safe handling and use of appropriate tools.	Assignment	25
	Tasksheet MHTS0019: Demonstrate proper cleaning, storage, and maintenance of tools and equipment.	Assignment	25
	Tasksheet MHTS002: Utilize safe procedures for handling of tools and equipment.	Assignment	10
	Tasksheet MHTS0027: Reports to work daily on time; able to take directions and motivated to accomplish the task at hand.	Assignment	10
	Tasksheet MHTS0028: Dresses appropriately and uses language and manners suitable for the workplace.	Assignment	10

Due Date	Assignment Name	Assignment Type	Points
	Tasksheet MHTS0030: Meets and maintains employment eligibility criteria, such as drug/alcohol-free status, clean driving record, etc.	Assignment	10
	Tasksheet MHTS0032: Complies with workplace policies/laws.	Assignment	10
	Tasksheet MHTS0036: Contributes ideas and initiative.	Assignment	10
	Tasksheet MHTS005: Utilize proper ventilation procedures for working within the lab/shop area.	Assignment	10
	Tasksheet MHTS006: Identify marked safety areas.	Assignment	10

Due Date	Assignment Name	Assignment Type	Points
	Tasksheet MHTS007: Identify the location and the types of fire extinguishers and other fire safety equipment; demonstrate knowledge of the procedures for using fire extinguishers and other fire safety equipment.	Assignment	10
	Tasksheet MHTS008: Identify the location and use of eye wash stations.	Assignment	10
	Tasksheet MHTS009: Identify the location of the posted evacuation routes.	Assignment	10

Grading Scale

A 100% - 85%

B 84% - 70%

E less than 70%

How to Navigate to Canvas

Institutional Policies

As members of our academic community, we would like to invite you to review the Institutional Syllabus which covers important policies and procedures. This document contains important links for students on the code of student rights and responsibilities, academic integrity, and grading policies, Title IX and other important acknowledgements. By familiarizing yourself with this information, you can help us create a safe and respectful environment for everyone.

For more information, navigate to the Institutional Policies tab on the [Institutional Syllabus](#) page.

Learning Support and Tutoring Services

We are pleased to offer a range of tutoring and learning support services to help you achieve your academic goals. Whether you need assistance with a specific subject or want to improve your study skills, you have many options for tutoring or other support.

To learn more about the services we offer and how to access them, visit the [Institutional Syllabus](#) page under the Tutoring and Learning Support tab. We encourage you to take advantage of these resources to help you succeed in your studies. If you have any questions or would like to schedule a tutoring session, please don't hesitate to reach out to us. We are here to support you in any way we can.

Advising and Counseling Support Services

At our institution, we are committed to supporting your academic and personal growth. That's why we offer a range of advising and counseling services to help you navigate the challenges of college life. To learn more about the resources available to you and how to access them, visit the [Institutional Syllabus](#) page under the Advising and Counseling Support Services tab. Our advising team and the support centers across campus are here to support you in achieving your goals and overcoming any obstacles you may face.

Student Academic Calendar

As students you should be aware of all important dates in the semester, such as the day that courses begin and end, as well as the drop date and the last day to withdraw. To learn more about those dates, navigate to the Student Academic Calendar below:

[SLCC Student Academic Calendar](#)