



MASTER COURSE OUTLINE

A. DESL 2210 Diesel Project Lab

B. COURSE DESCRIPTION:

This course covers all aspects of heavy-duty diesel equipment. Included are diagnosis, customer communication, writing work orders, preparing a parts list, coordination outside work, repair procedures, and testing of the finished job. Finding the diesel project is the responsibility of the student. It can be chosen from a wide range of repair jobs and must relate to diesel equipment. Instructor must approve what projects qualify. The project must be 60 hours in length as determined by an industry flat rate manual. Two or more smaller projects may be selected if flat rate requirement is met. This course, along with other program courses, satisfies the task requirements set forth by the Automotive Service Excellence (ASE) Education Foundation accreditation.

(4 Cr – 0 lect, 4 lab)

C. **Core Theme: Critical Thinking

D. RIVERLAND INSTITUTIONAL LEARNING OUTCOMES:

This course addresses the following Riverland Institutional Learning Outcome(s):

- ILO 1: critical thinking (*Core Theme Goal 2*)
- ILO 2: awareness of the larger global community (*Core Theme Goal 7 or 8*)
- ILO 3: ethical, engaged citizenship (*Core Theme Goal 9 or Goal 10*)
- ILO 4: communication and collaboration (*Discipline Goal 1 and by any learning outcome(s) involving communication or collaboration*)

E. MAJOR CONTENT AREAS:

- Customer contact creation of repair orders
- Diagnosis and assessment of equipment problems
- Parts list preparation and estimation of cost
- Outside repair coordination
- Repair procedures
- Equipment testing
- Final report to customer

F. GOAL TYPE, OBJECTIVES, AND OUTCOMES:

<u>GOAL TYPE</u>	<u>OBJECTIVES</u> Students will be able to	<u>OUTCOMES</u> The student will successfully
<u>**Critical Thinking</u>	gather factual information and apply it to a given problem in a manner that is relevant, clear, comprehensive, and conscious of possible bias in the information selected.	1. indicate repairs and oversee diesel projects.
<u>CS</u>	examine, articulate, and apply their own ethical views.	1. demonstrate ethical customer relations.
<u>CS</u>	understand repair order process.	1. prepare order for repair.
<u>CS</u>	understand customer relations.	1. communicate need for repairs to the customer.
<u>CS</u>	coordinate outside repairs.	1. communicate repairs with outside vendors.
<u>CS</u>	coordinate repair job.	1. follow repair to completion.

G. SPECIAL INFORMATION:

This course may require use of the Internet, the submission of electronically prepared documents and the use of a course management software program. Students who have a disability and need accommodations should contact Accessibility Services at the beginning of the semester. This information will be made available in alternative format, such as Braille, large print, or current media, upon request.

The student will need access to and use of a laptop computer capable of running required software.

H. COURSE CODING INFORMATION:

Course Code S/Class Maximum 24; Letter Grade

Revision date: 01/10/20; 10/23/23

AASC Approval date: 04/19/11; 3/24/20; 12/11/23

*Riverland Community College Disciplines	MnTC Goal Number
Communication (CM)	1
Natural Sciences (NS)	3
Mathematics/Logical Reasoning (MA)	4
History and the Social & Behavioral Sciences (SS)	5
Humanities and Fine Arts (HU)	6

**Riverland Community College Core Themes	MnTC Goal Number
Critical Thinking (CT)	2
Human Diversity (HD)	7
Global Perspective (GP)	8
Ethical and Civic Responsibility (EC)	9
People and the Environment (PE)	10

*These five MnTC Goals have been identified as Riverland Community College Disciplines.

** These five MnTC Goals have been identified as Riverland Community College Core Themes.

NOTE: The Minnesota Transfer Curriculum “10 Goal Areas of Emphasis” are reflected in the five required discipline areas and five core themes noted in the Riverland Community College program of study guide and/or college catalog.

Riverland