



MASTER COURSE OUTLINE

A. DESL 1114 Commercial Vehicle Preventative Maintenance and Inspection

B. COURSE DESCRIPTION:

This course covers preventative maintenance procedures approved by The Maintenance Council (TMC) to effectively lower overall operating costs for trucking companies. Annual vehicle safety inspection for Minnesota Department of Transportation regulation compliance is covered. This course, along with other program courses, satisfies the task requirements set forth by the Automotive Service Excellence (ASE) Education Foundation accreditation.

Prerequisite: DESL 1101.

(2 Cr – 1 lect, 1 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:

- TMC preventative maintenance guidelines
- A, B, C preventative maintenance (PM) scheduling
- Out of service criteria
- Wheel, tire, and PM safety
- Annual commercial vehicle inspection
- Service shop waste recycling procedures

F. GOAL TYPE, OBJECTIVES, AND OUTCOMES:

<u>GOAL TYPE</u>	<u>OBJECTIVES</u>	<u>OUTCOMES</u>
**Critical Thinking	Students will be able to 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.	The student will successfully 1. perform commercial vehicle maintenance and inspection.

<u>CS</u>	examine, articulate, and apply their own ethical views.	1. describe commercial vehicle inspection responsibility. 2. describe how annual safety inspection relate to ethical and civic responsibility.
<u>CS</u>	propose and assess alternative solutions to environmental problems.	1. describe recycling opportunities and responsibilities in truck maintenance facilities. 2. describe how green shop practices relate to people and the environment.
<u>CS</u>	understand commercial vehicle maintenance to TMC standards.	1. perform commercial vehicle maintenance using TMC procedures.
<u>CS</u>	recognize state and federal law regarding commercial vehicle safety.	1. compete inspection certification test.
<u>CS</u>	recognize U.S. Department of Transportation "Out of Service" criteria.	1. identify vehicle "Out of Service" defects.

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; 03/23/21; 10/23/23

AASC Approval date: 04/19/11; 4/20/21; 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