



## MASTER COURSE OUTLINE

A. DESL 1101 Shop Safety, Tools and Equipment

B. COURSE DESCRIPTION:

This course is designed to introduce, perfect, and evaluate basic safety and shop skills necessary for successful completion of the Diesel Technology program. The course consists of instruction and shop performance exercises in safety, hand and machine tool operation, use and maintenance, tool identification, and other basic shop skills. This course complies with personal and environmental safety practices associated with clothing, eye protection, hand tools, power equipment, and proper ventilation. The handling, storage, and disposal of chemicals and materials in accordance with federal, state, and local regulations are also covered. This course, along with other program courses, satisfies the task requirements set forth by the Automotive Service Excellence (ASE) Education Foundation accreditation.  
**(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:

- Safe Use of Shop Equipment
  - Jacks and stands
  - Shop power equipment
  - Hoist and chain use
- Hand Tool Identification and Use
  - Hand tools
  - Pullers
  - Air and electrical equipment
- Precision Measuring Tools and Use
  - Micrometers
  - Dial indicators
  - Pressure gauges

- Shop Safety and Maintenance
  - Right to Know
  - Occupational Safety and Health Administration (OSHA) safety
  - State and federal laws
  - Safety Data Sheet (SDS)

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. secure information about proper handling of hazardous products.
<u>CS</u>	evaluate critically environmental and natural resource issues in light of understandings about interrelationships, ecosystems, and institutions.	1. analyze the effects of pollution on the environment from inappropriate disposal of shop chemical materials.
<u>CS</u>	understand shop safety.	1. demonstrate safe use of equipment.
<u>CS</u>	recognize shop tools.	1. identify shop tools both by written description and by sign of the tools.
<u>CS</u>	understand safe use of shop equipment.	1. demonstrate the safe use of shop equipment by the different shop tasks that are required.
<u>CS</u>	understand the use of SDS and the Right to Know safety documents.	1. explain the use of SDS sheets related to different shop products. 2. demonstrate an understanding of the employee Right to Know book.

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. This course will cover the characteristics of hazardous wastes and its safe handling, storage, and disposal. 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; 10/24/23

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

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

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

\*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.