HIBBING COMMUNITY COLLEGE
COURSE OUTLINE

COURSE TITLE & NUMBER: DSL 2540: Standard Transmission/Clutches
CREDITS: 4 (2 Lec/2 Lab)
PREREQUISITES: NONE

CATALOG DESCRIPTION: Standard Transmissions/Clutches focuses on theory, operation, repair and rebuild procedures for manual transmissions and clutches that are used in on/off highway vehicles and heavy equipment.

OUTLINE OF MAJOR CONTENT AREAS:
1. Relationship between speed and torque as it relates to gear trains
2. Typical transmission components include
   A. Input/output shafts
   B. Main shaft
   C. Countershaft
   D. Shift mechanisms
3. Auxiliary transmissions
4. Identification of the styles of clutches (pull and push)
5. Clutch components include:
   A. Plates
   B. Discs
   C. Pressure plate
   D. Throwout bearing
6. Steering clutches

COURSE GOALS/OBJECTIVES/OUTCOMES:
1. Students will exhibit safe work practices.
2. Students will display dependability.
3. Students will exhibit professionalism.
4. Students will contribute to class discussion.
5. Students will perform assigned tasks.
6. Students will properly disassemble and assemble a twin countershaft manual transmission following the service manual.
7. Students will properly disassemble and service a clutch.
8. Students will properly perform an inspection of the transmission and clutch assembly and adjust as needed.

HCC COMPETENCIES MET:
Working Productively & Cooperatively
Communicating Clearly & Effectively
Thinking Creatively & Critically
Social & Civic Responsibility
STUDENT CONTRIBUTIONS:
Students are expected to prepare for class, attend class, attend all lectures and labs, participate in all class activities, complete work on time and request assistance if needed.

STUDENT ASSESSMENT SHALL TAKE PLACE USING INSTRUMENTS SELECTED/DEVELOPED BY THE COURSE INSTRUCTOR.

Curriculum Committee Approval Date: May 7, 2019

AASC APPROVAL DATE: July 24, 2019
REVIEW DATE: July 2024