BARTON COMMUNITY COLLEGE

##### COURSE SYLLABUS

## GENERAL COURSE INFORMATION

Course Number: CNHI 1202

Course Title: 2WD Tractor Systems 45 to 100 hp

Credit Hours: Variable 1-3

Prerequisites: None

Division/Discipline: Community Education-Customized training

Course Description: The class is primarily hands-on in nature and through the use of the manuals, mock-ups, cutaways, and practice, students will become adept at identifying, analyzing and fixing issues with all systems on tractors 45 to 100 horsepower.

Variable Credit: If the student enrolls in a 4-day face to face diagnostics class, then it is a 2 credit hour course. If the student enrolls in a 2-day product update class it is a 1 credit hour course, and if the student enrolls in the 6-week online and 2-day face to face class, it is a 3 credit hour course. All sections of the course cover the same material.

## INSTRUCTOR INFORMATION

## COLLEGE POLICIES

Students and faculty of Barton Community College constitute a special community engaged in the process of education. The college assumes that its students and faculty will demonstrate a code of personal honor that is based upon courtesy, integrity, common sense, and respect for others both within and outside the classroom.

Plagiarism on any academic endeavors at Barton Community College will not be tolerated. The student is responsible for learning the rules of, and avoiding instances of, intentional or unintentional plagiarism. Information about academic integrity is located in the Student Handbook.

The College reserves the right to suspend a student for conduct that is determined to be detrimental to the College educational endeavors as outlined in the College Catalog, Student Handbook, and College Policy & Procedure Manual. (Most up-to-date documents are available on the College webpage).

Any student seeking an accommodation under the provisions of the Americans with Disability Act (ADA) is to notify Student Support Services via email at [disabilityservices@bartonccc.edu](mailto:disabilityservices@bartonccc.edu)

## COURSE AS VIEWED IN THE TOTAL CURRICULUM

This course is one in a series of Case-New Holland Industrial Service Training courses. This course is not open to the general public, and is not designed as a transfer course.

1. **ASSESSMENT OF STUDENT LEARNING**

Barton Community College is committed to the assessment of student learning and to quality education. Assessment activities provide a means to develop an understanding of how students learn, what they know, and what they can do with their knowledge. Results from these various activities guide Barton, as a learning college, in finding ways to improve student learning.

Given appropriate training materials, live equipment, and proper diagnostic equipment the student will be able to identify symptoms of malfunctioning components, analyze these symptoms to determine a cause, affect repair of failed components, and confirm that the machine is working correctly.

Course Outcomes, Competencies, and Supplemental Competencies:

1. The student will be able to identify symptoms of malfunctioning components, analyze these symptoms to determine a cause, affect repair of failed components, and confirm that the machine is working correctly.

1. Identify and locate all electrical components on the tractor.

2. Determine the relationship between electrical components on the tractor and their relationship to the electrical schematic.

3. Troubleshoot, calibrate, configure, and download software into the electronic controllers on the tractor.

4. Identify, locate, and determine correct operation of all hydraulic components on the tractor and their relationship on the hydraulic schematic.

5. Be able to troubleshoot, check, and set flows and pressures on each hydraulic system/components on the tractor.

## INSTRUCTOR'S EXPECTATIONS OF STUDENTS IN CLASS

## TEXTBOOKS AND OTHER REQUIRED MATERIALS

### REFERENCES

### METHODS OF INSTRUCTION AND EVALUATION

## ATTENDANCE REQUIREMENTS

## COURSE OUTLINE