BARTON COMMUNITY COLLEGE

##### COURSE SYLLABUS

## GENERAL COURSE INFORMATION

Course Number: CNHI 1185

Course Title: Self-Propelled Sprayers

Credit Hours: Variable 1-3

Prerequisites: None

Division/Discipline: Career & Technical Education

Course Description: This course is designed to familiarize the individual with the self-propelled sprayer. The student will study the different systems of the sprayer, its operation, and steps necessary to efficiently diagnose in-field concerns/issues with the machine.

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.

## 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.

The course will introduce the self-propelled sprayer. The technician will have sufficient shop time to become familiar with the new product.

## 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.

Course Outcomes, Competencies, and Supplemental Competencies:

1. Accurately identify, diagnose, repair and maintain the following systems of a self-propelled sprayer:
2. Demonstrate a working knowledge of the hydraulic drive systems.
3. Identify component location, function, diagnosis, and repair of the auxiliary hydraulic system components.
4. Identify component location, function, diagnosis, and repair of electrical system components.
5. Identify key component location, function diagnosis, and repair of the sprayer.
6. Demonstrate preventative maintenance procedures for the sprayer.
7. Demonstrate an understanding of the boom fold/unfold functions of the sprayer.
8. Accurately set up the sprayer and application system for efficient product application.
9. Demonstrate the functionalities of the Industry Standard Organization 11783 (ISO11783) system, Virtual Terminal (VT) system, and Task Controller (TC) system, as it relates to the sprayer.
10. Demonstrate proper adjustments for various application products.
11. Demonstrate an understanding of the additional systems on the sprayer (Accu Boom, Auto Boom, Auto Fold Plus, AIM Command Flex).
12. Utilize the electronic CASE Service Tool, when applicable.
13. Demonstrate the ability to load software to various controllers on the sprayer.
14. Analyze measureable parameters as they pertain to systems on the sprayer.

## INSTRUCTOR'S EXPECTATIONS OF STUDENTS IN CLASS

## TEXTBOOKS AND OTHER REQUIRED MATERIALS

### REFERENCES

### METHODS OF INSTRUCTION AND EVALUATION

## ATTENDANCE REQUIREMENTS

## COURSE OUTLINE