

6/21/2023

DATE

AGR DIVISION



REQUIRED COURSE

☐ NEW COURSE

ELECTIVE COURSE

☒ REVISION

Lake Land College

Course Information Form

COURSE NUMBER:	JDA-080	TITLE: (30 Characters Max)		John Deere Electrical Systems							
SEM CR HRS:	3	Lecture:	2	Lab:	3	ICCB Lab:	3.0	ECH:	5		
Course Level:	<input type="checkbox"/> Gen Ed / IAI <input type="checkbox"/> Baccalaureate /Non-IAI		<input checked="" type="checkbox"/> Career/Technical <input type="checkbox"/> Dev Ed/ Not in Degree Audit		Clinical Practicum:	0	Work-based Learning	0	WBL ECH:	0	
COURSE PCS #	12 - 01. 0201		IAI Code		N/A		Contact Hours (Minutes/Week)				
Repeatable (Y/N):	N	Pass/Fail (Y/N):	N	Variable Credit (Y/N):	N	Min:	Max:	16 Wks	250	8 Wks	500
Prerequisites:	None										
Corequisites:	None										
Catalog Description: (40 Word Limit)	Basic electrical principles and applications of magnetism, electromagnetism, and the safe utilization of electrical test meters. Principles of operation, testing, and repair of ignition systems, cranking systems, and charging systems will be demonstrated and practiced.										

List the Major Course Segments (Units)	Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Work-based Learning
Introduction to Electricity	5	5		
Electrical Testing Equipment	4	5		
Storage Batteries	3	5		
Charging Circuits	3	5		
Starting Circuits	3	5		
Ignition Circuits	2	2		
Lighting and Accessory Circuits	5	8		
Diagnosis and Testing	5	10		
TOTAL	30	45	0	0

EVALUATION

QUIZZES	<input checked="" type="checkbox"/>	EXAMS	<input type="checkbox"/>	ORAL PRES	<input type="checkbox"/>	PAPERS	<input type="checkbox"/>
LAB WORK	<input checked="" type="checkbox"/>	PROJECTS	<input type="checkbox"/>	COMP FINAL	<input checked="" type="checkbox"/>	OTHER	<input checked="" type="checkbox"/> Workbook

COURSE MATERIALS

TITLE:	John Deere FOS—Electrical
AUTHOR:	Julius Defauw
PUBLISHER:	John Deere Publishing
VOLUME/EDITION/URL:	9th Edition
COPYRIGHT DATE:	2012

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		<i>The student will be able to:</i>
Introduction to Electricity	10	Students will understand the concepts of basic electricity.
Electrical Testing Equipment	9	Students will demonstrate the ability to properly use electrical test equipment.
Storage Batteries	8	Student will demonstrate the ability to properly diagnose and test batteries in a safe matter.
Charging Circuits	8	Students will demonstrate the ability to diagnose, test, and repair these components.
Starting Circuits	8	Students will demonstrate the ability to diagnose, test, and repair these components.
Ignition Circuits	4	Students will demonstrate the ability to diagnose, test, and repair these components.
Lighting and Accessory Circuits	13	Students will demonstrate the ability to diagnose, test, and repair these circuits.

Diagnosis and Testing	15	Students will explain the proper steps necessary to diagnose and test electrical systems using wiring schematics.
	75	

COURSE OUTCOMES*	At the successful completion of this course, students will be able to:
	Demonstrate personal safety practices to be used while servicing John Deere electrical systems.
	Perform safe and correct operation of a digital multimeter.
	Perform the basic principles of electricity including electrical flow and electromagnetic induction.
	Demonstrate knowledge of basic series circuits and electrical flow in these circuits.
	Demonstrate knowledge of basic parallel circuits and electrical flow in these circuits.

* Course Outcomes will be used in the Assessment Software for Outcomes Assessment. Limit to 3 - 5.