

6/20/2023 DATE

 REQUIRED COURSE
 ELECTIVE COURSE

 Agriculture DIVISION
 NEW COURSE
 REVISION

Lake Land College

Course Information Form

COURSE NUMBER:	JDA-072	TITLE: (30 Characters Max)	John Deere Advanced Power Trains								
SEM CR HRS:	3	Lecture:	1	Lab:	4	TRUE	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				Contact Hours (Minutes Per Week)				
Repeatable (Y/N):		Pass/Fail (Y/N):		Variable Credit (Y/N):		Min:	Max:	16 Wks	250	8 Wks	500
Prerequisites:	JDA-071 John Deere Power Trains										
Catalog Description: (40 Word Limit)	Students will put into practice the theories of diagnosis, disassembly, inspection, repair and reassembly of John Deere power train components. These components will include clutches, transmissions, differential, and final drives for both combines and tractors.										

List the Major Course Segments (Units)					Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Work-based Learning
1	Diagnosis and Repair Procedure				4	4		
2	Disassembly Procedure				3	16		
3	Parts Evaluation				2	8		
4	Reassembly and Adjustment Procedures				6	32		
5								
TOTAL					15	60	0	0

EVALUATION

QUIZZES	<input checked="" type="checkbox"/>	EXAMS	<input checked="" 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 type="checkbox"/>

COURSE MATERIALS

TITLE:	John Deere FOS – Power Trains John Deere Technical Manuals
AUTHOR:	John Deere
PUBLISHER:	John Deere Publishing
VOLUME/EDITION/URL:	8th Edition
COPYRIGHT DATE:	2011

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		The student will be able to:
Diagnosis and Repair Procedure	12	Students will learn proper diagnostic procedures as they relate to power trains.
Disassembly Procedures	11	Students will use John Deere technical information to properly disassemble power train components.
Parts Evaluation	6	Students will learn and demonstrate knowledge of parts inspection for reuse or replacement.
Reassembly and Adjustment Procedures	46	Using John Deere technical manuals, students will be expected to follow step-by-step reassembly procedures. This reassembly will be done using proper adjustment or gear backlash, hardware torque, shaft endplay, etc. Students will learn the importance of following recommended procedures.
Insert New Line Above this Line		
75		

COURSE OUTCOMES*

At the successful completion of this course, students will be able to:

Perform personal safety as related to repair of John Deere power trains.

Demonstrate precision measuring equipment and its proper use while servicing power train components.

Perform proper repair and adjustment procedures used while servicing mechanical and hydraulic clutches.

Perform proper repair and adjustment procedures used while servicing mechanical shift transmissions.

Perform proper repair and adjustment procedures used while servicing power shift transmissions.
