

6/21/2023 DATE

 REQUIRED COURSE  
 ELECTIVE COURSE

 Agriculture DIVISION  
 NEW COURSE  
 REVISION

# Lake Land College

## Course Information Form

COURSE NUMBER:	JDA-094	TITLE: (30 Characters Max)	John Deere Air Conditioning Systems								
SEM CR HRS:	2.5	Lecture:	1	Lab:	3	ECH:	4				
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):	N	Pass/Fail (Y/N):	N	Variable Credit (Y/N):	N	Min:	Max:	16 Wks	200	8 Wks	400
Prerequisites:											
Catalog Description: (40 Word Limit)	Theory and principles of operation, diagnosis, and repair of John Deere heating and air conditioning systems. Students will also become certified to comply with state and federal laws.										

List the Major Course Segments (Units)	Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Work-based Learning
1 Safe Handling of A/C Materials	1	5		
2 Theory of Operation	1	3		
3 Diagnosis	6	13		
4 Service Procedures	6	19		
5 Component Repair	1	5		
<b>TOTAL</b>	<b>15</b>	<b>45</b>	<b>0</b>	<b>0</b>

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

COURSE MATERIALS	
TITLE:	John Deere FOS—Air Conditioning Service Publications
AUTHOR:	John Deere
PUBLISHER:	John Deere Publishing
VOLUME/EDITION/URL:	9th Edition
COPYRIGHT DATE:	2005

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		<i>The student will be able to:</i>
Safe Handling of A/C Materials	6	Students will gain information concerning proper and safe handling of refrigerants and equipment.
Theory of Operation	4	Students will understand the flow of refrigerant in the system and what function each component performs.
Diagnosis	19	Students will gain knowledge in the proper diagnostic skills and use of special tools for diagnosis.
Service Procedures	25	Students will acquire the proper knowledge to recover refrigerant, repair, flush, evacuate and recharge the system. Also diagnosis and R & R of A/C and heating controls.
Component Repair	6	Students will gain the knowledge and skills to do basic repairs on air conditioning compressors used by John Deere.
Insert New Line Above this Line		
	60	

COURSE OUTCOMES*	At the successful completion of this course, students will be able to:
	Perform safe handling practices of air conditioning materials.
	Demonstrate operating characteristics of air conditioning systems.
	Perform air conditioning system diagnostic procedures.

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Perform proper servicing procedures on air conditioning systems.

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