02/09/15	DATE	Technology	DIVISION
	REQUIRED COURSE		NEW COURSE
	ELECTIVE COURSE	X	REVISION

LAKE LAND COLLEGE
Course Information Form

COURSE NUMBER IND042 **TITLE** Pipefitting Procedures

SEM CR HRS 1 **LT HRS** 0.5 **LAB HRS** 1 **SOE HRS** _____ **ECH** _____

COURSE PCS# _____ (Assigned by Administration)

Prerequisites:

Catalog Description (40 Word Limit): Focuses on the basic principles of installation and maintenance of industrial piping systems. Mechanical joining methods are stressed.

List the Major Course Segments (Units)	Lt Hrs	Lab Hrs
Piping Dimensions and Terminology	1	1
Pipe Cutting and Threading	1	4
Welded Piping Systems	1	4
Plastic Piping Systems	1	
Tubing Fundamentals	1	3
Tubing installation	1	3
Hydraulic Tubing Systems	1	
Hose Systems	.5	
Gaskets, Sealants, and Adhesives	.5	

EVALUATION:

Quizzes	X	**Exams**	X	**Oral Pres**		**Papers**	
Lab Work	X	**Projects**	X	**Comp Final**	X	**Other**	

Textbook:

Title: Maintenance Pipefitting ; Tube and Hose Systems

Author:

Publisher: Division of Telemedia

Volume/Edition:

Copyright Date: 2001

Major Course Segment	Hours	Learning Outcomes
Pipe Dimension	2	Students should be able to design a pipe “to-fit” utilizing design formulas
Pipe Cutting and Threading	5	Students should be able to use tools correctly to cut and thread pipe and inspect threads for defects.
Welded Piping System	5	Students should be able to align, hold and measure pipe and fittings
Plastic Piping Systems	1	Student should be able to identify and describe the maintenance required on the two main types of plastic pipe (thermoplastic and thermosetting).
Tubing Fundamentals	4	Students should be able to use bending tables to establish correct procedures and bend allowances. Students should be able to correctly bend and inspect tubing.
Tubing Installation	4	Students should be able to correctly install and select the proper tubing for a specific application. Students should also be able to install and determine correct tubing fittings and fixtures for a specific application.
Hydraulic Tubing System	1	Student should be able to identify and describe the maintenance required on hydraulic systems
Hose System	.5	Student should be able to identify and describe the maintenance required on hose systems
Gaskets, Sealants, and Adhesives	.5	Student should be able to identify and describe the maintenance required for gaskets, sealants, and adhesives

Course Outcomes: At the completion of this course the student will be able to:

- Demonstrate ability to cut and prepare pipe using variety of methods
- Demonstrate ability to use tools correctly to cut threads and inspect threads for defects.
- Demonstrate ability able to use bending tables to establish correct procedures and bend allowances. Students should be able to correctly bend and inspect tubing.