COURSE ARTICULATION ANALYSIS

John A. Logan College

Course Title: **_MAC 162 Machine Tool Laboratory___**

Contact Hours: Lec. _____ Lab____4Hrs.____

Text(s) Used:_Machine Tool Practices 7th Ed. Kibbe, Neely, Meyer, White
Recommendations:

_____ High School

Course Title(s): _____
(As it appears on transcript)

Instructor(s)_____

Course length: ____Full year ____Semester _____Other
Class meets: _____Hours per day _____Hours per week

Number of Credits: _____
Total Contact Hours: _____
Text(s) Used:_____

Recommendations:

Required Grade: _____

Course Competencies/Outcomes & Evaluation Methods

	JALC			**High School**		
Outcome/Competencies	**Yes**	**No**	**Evaluation**	**Yes**	**No**	**Evaluation**
1. Using form cutters to mill a work piece						
2. Mill simple and compound angles in tool steel						
3. Square up a workpiece of a surface grinder						
4. Indicate and inspect workpiece to be ground						
5. Dress form on grinding wheel						
6. Grind form into part						
7. Grind angular surfaces						
8. Grind straight and tapered surfaces between centers using jig grinder						
9. Grinding precision angles using a magnetic sine plate						

10. Heat treating tool steel to the desired hardness						
11. Tempering of tool steel and testing the hardness with a Rockwell Hardness Tester						
12. Calculating of feeds and speeds for tool steels on a CNC milling/turning centers						

Code

O = Observation
W = Written Assignment
S = Skills/Practicum
P = Projects
T = Test
R = Research Paper
PF = Portfolio
PR = Presentation
LA = Lab Assignment

JALC Instructor's Signature:	High School Teacher's Signature:
JALC Associate Dean Signature:	Regional System Director's Signature:
Date:	Date: