

COURSE ARTICULATION ANALYSIS

John A. Logan College

_____ **High School**

Course Title: MAC 161 Machine Tool Laboratory

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

Instructor(s) _____

Course length: ____ Full year ____ Semester ____ Other

Class meets: _____ Hours per day _____ Hours per week

Contact Hours: Lec. _____ Lab ____ 4Hrs. ____

Number of Credits: ____

Total Contact Hours: ____

Text(s) Used: _____

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

Recommendations:

Required Grade: _____

Course Competencies/Outcomes & Evaluation Methods

Outcome/Competencies	JALC			High School		
	Yes	No	Evaluation	Yes	No	Evaluation
1. Cutting metric component parts on a CNC turning center						
2. Cutting metric component parts of a CNC milling center						
3. Turn or thread long workpieces using follow rest						
4. Turn or thread long workpieces using a steady rest						
5. Turning a part on a lathe using a faceplate						
6. Identify and replace a carbide insert according to its identification number						
7. Installing and cutting with carbide inserts						

8. Calculating the feeds and speeds for carbide tooling						
9. Set-up tool data page on a CNC turning center						
10. Editing Mazatrol conversational programs for "M" codes						
11. Turning of soft jaws for precision chucking applications						
12. Precision boring operations on a CNC turning center						

Code

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

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