PROGRAM PROPOSAL FORM

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- Preliminary Approval Check here when using this form for preliminary approval of a program proposal, and respond to the items in general terms.
- Final Approval Check here when completing this form after the Vice President for Instruction has given preliminary approval to a program proposal. For final approval, complete information must be provided for each item.

Program Name: Division and Department: Type of Award:	Machine Tool Setup and Operation <u>Advanced Technology and Public Services Careers/ Industrial Technology</u> <u>Department</u> □ AA □ AS □ AAS ⊠ Cert. □ Adv. Cert. □ Post-Assoc. Cert. □ Cert. of Comp.		Program Code: <u>CT M</u> TSO	
Effective Term/Year:	Fall 2015		CIP Code:	
Initiator:	Jeff Donahey/Thomas Penird		48.0501	
 Program Features Program's purpose and its goals. Criteria for entry into the program, along with projected enrollment figures. Connection to other WCC programs, as well as accrediting agencies or professional organizations. Special features of the program. 	In this certificate, students are taught how to 3D space, understands materials processes and fundamentals of machine tools. In addition, n and operation of CNC machine tools will be p go into a local manufacturing company and op tool, as well as do operations like heat treating product.	d testing, and recognize t neasurement techniques a practiced. The student wi perate a traditional or CN	he and the setup Il be able to IC machine	×
Need Need for the program with evidence to support the stated need.	Many of our students are only here to get specific training required by local industry. This is reflected in our completion numbers. Several students have asked for certification.			
Program Outcomes/Assessment State the knowledge to be gained, skills to be learned, and attitudes to be developed by students in the program. Include assessment methods that will be used to determine the effectiveness of the program.	 <u>Outcomes</u> Setup and operate CNC mills and lathes Operate traditional mills, lathes, and saws. Read and interpret blueprint abbreviations, symbols and dimensions. Measure parts using core measurement devices such as micrometers, calipers, rules, go-no gages, protractors and optical comparators. 	Assessment method 1. Capstone Projects 2. Capstone Projects 3. Test 4. Tests	×	¢

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Curriculum List the courses in the program as they should appear in the catalog. List minimum credits required. Include any notes that should appear below the course list.	MEC101 2 credits MEC 201 2 credits MTT 102 2 credits MTT 111 4 credits NCT 101 2 credits	faterials and Processes A D Modeling and Blueprint Reading A fechanisms A fachining for Automotive applications A fachine Shop Theory and Practice A ntroduction to Computerized Machining (CNC I) A ntroduction to Computerized Machining (CNC II) A purses A		
Budget	START-UP COSTS ONGOING COSTS			
Specify program costs in the following	Faculty	\$ 0.0	\$.	
areas, per academic year:	Training/Travel	0.0		
	Materials/Resources	•		
	Facilities/Equipment			
	Other			
	TOTAL	S: \$.	\$.	
	mills, lathes and saws. They learn how to use basic measurement tools and read blueprints. This certificate will highlight the fundamentals of materials and processes including mechanical and physical testing and heat treatment of ferrous and non- ferrous metals. Students completing this certificate will be able to perform many of the fundamental tasks within a fabrication shop including simple part manufacturing, set-up and operation of CNC machine tools as well as inspection using simple measurement tools.			
Program Information	Faurecia: Wes Nichols Mechanized Numerics LL L&W Engineering: David Jacobs Technologies: Ed Heller Precision Machinin Admission requirements - Articulation agreements -	Josh Jeffers 1 Hoag, Debra Adams, MS P C: Andrew Dubuc Braun Grabow g: Jason Barnhart, Chris Wel		
	Continuing eligibility requ	airements -		

Assessment plan:

Program outcomes to be assessed	Assessment tool	When assessment will take place	Courses/other populations	Number students to be assessed	
1. Setup and operate CNC mills and lathes 4	Capstone Project	Fall 2015	NCT 110	All	×
2. Operate traditional mills, lathes, and saws.	Capstone Projects	Fall 2015	MTT 111	All	
3. Read and interpret blueprint abbreviations, symbols and dimensions.	Test	Fall 2015	MEC101	All	1
 Measure parts using core measurement devices such as micrometers, calipers, rules, go-no gages, protractors and optical comparators. 	Test	Fall 2015	MTT 111	All	

Scoring and analysis plan:

1. Indicate how the above assessment(s) will be scored and evaluated (e.g. departmentally-developed rubric, external evaluation, other). Attach the rubric.

Outcomes 1 and 2: Department-developed rubric Outcomes 3 and 4: Answer Key

- 2. Indicate the standard of success to be used for this assessment. 75% of the students will score 70% or better on each outcome.
- 3. Indicate who will score and analyze the data. Department Faculty

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REVIEWER	PRINT NAME	SIGNATORE /	DATE	
Department Chair/Area Director	Thomas	Penird The h	1/6/2015	
Dean	Brandon	Tucker	1/6/15	
Vice President for Instruction Approved for Development Final Approval	William Abernethy	15124	2/5/15	
President	Rose Bellanca	Bellenca	2/23/15	
Board Approval			3/24/15	