PROGRAM PROPOSAL FORM

Preliminary Approval - Check here items in general terms.	when using this form for preliminary approval of a	program proposal, and respond to the	
	completing this form after the Vice President for Instal, complete information must be provided for each		
Program Name:	Powertrain Development Technician (APPDT)		
Division and Department:	ATP/ AUTD		
Type of Award:	☐ AA ☐ AS ☒ AAS ☐ Cert. ☐ Adv. Cert. ☐ Post-Assoc. Cer	t. Cert. of Comp.	
Effective Term/Year:	Fall 2015		
Initiator:	Allen Day		
Program Features Program's purpose and its goals.	This program is being developed in coordina Equipment grant. In this program, students v	vill develop the knowledge and	
Criteria for entry into the program, along with projected enrollment figures.	skills to perform automotive powertrain testi Jobs in this area require experience with an		
Connection to other WCC programs, as well as accrediting agencies or professional organizations.	This program utilizes some existing courses from the automotive services (APASRV) associate degree program to provide the background for testing and development of powertrains. While the APASRV program goes on to review all		
Special features of the program.	components of a car, this program focuses of systems. This program would require the purchase of	-	
Need for the program with evidence to support the stated need.	This program is developed in coordination of grant and as a result of round table discussifucal employers, GM Powertrain, Detroit D who participated in the round table discussifute field of powertrain development technic engineering powertrain testing lab or an engineering lab setting up tests, running them us with interpretation of results.	ons with industry leaders. Three biesel and Thompson Automotive, ion, identified immediate openings in cian. Students would work in an gineering powertrain endurance	
Program Outcomes/Assessment	Outcomes	Assessment method	
State the knowledge to be gained, skills to be learned, and attitudes to be developed	1. Assemble dyno test cell to run engine and powertrain components.	1. Departmental Exam	
by students in the program.	2. Retrieve and analyze complex test	2. Departmental Exam	
Include assessment methods that will be used to determine the effectiveness of the program.	data. 3. Interpret test data and recommend corrective action.	3. Departmental Exam	

Done 4/25/15 mo

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Office of Curriculum & Assessment

Curriculum	Semester 1		15 - 16 Credits
	Writing Elective		3 - 4 cr
ist the courses in the program as they should	MTT 102	Machining for Auto Applicati	ions 2 cr
ppear in the catalog. List minimum credits equired. Include any notes that should	ASV 131	Automotive Electrical	4 cr
ppear below the course list.	ASV 132	Automotive Engines	4 cr
	WAF 105 ·	Introduction to Welding Proce	esses 2 cr
	Semester 2		15 Credits 1
	Computer Literacy		3 cr
	MEC 101 ·	Modeling and Blueprint Read	
	WAF 106	Blueprint Reading for Welder	
	ASV 256	Electrical and Electronic Syst	
	Natural Science Elective		4 cr
	Semester 3		15 Credits
	Math Elective		4 cr
	WAF 200	Layout/Fabrication for AMC	3 cr
	ASV 277	Automotive Powertrain Syste	ms 4 cr
	ASV 279 (Auto Dynamometer and Testi	
	Semester 4		16 credits
	Social Science Elective		3 cr
			3 cr
	Speech Elective Humanities Elective		3 cr
		Facility Operations	3 cr
	ASV 135 MST 220	Facility Operations Dynamometer Operations	4 cr
		(override)	
	Total Program Credits		62
	Semester 5 – Optional		9 – 10
	Courses to meet MTA		
	Social Science Elective		3 cr
	Humanities Elective		3 cr
	Physical Science		3-4 cr
	Elective		
	Total Decomon Credita		70 - 72
Budget	Total Program Credits		
_		START-UP COSTS	ONGOING COSTS
pecify program costs in the following reas, per academic year:	Faculty	\$.	Future FT Instructor
	Training/Travel	•	•
	Materials/Resources	•	\$600.00
	Facilities/Equipment	\$374,749.00*	\$2500.00
	Classified Faculty	\$374,749.00*	.5 FTE
	TOTALS:	ment grant funding* Funding overla	S TBD

Program Description for Catalog and Web site	In this program, students will develop the knowledge and skills to perform in-car powertrain testing in unique testing environments. Jobs in this area require knowledge of automotive engine and electrical systems and experience with an automotive dynamometer. Students will learn about dynamometer setup and testing including the operation of complex analytical test equipment and test software.
Program Information	Accreditation/Licensure - ASE Tests
	Advisors - TBD
	Advisory Committee – In Development
	Admission requirements -
	Articulation agreements - TBD
	Continuing eligibility requirements -

Assessment plan:

Program outcomes to be assessed	Assessment tool	When assessment will take place	Courses/other populations	Number students to be assessed
Assemble dyno test cell to run engine and powertrain components.	Departmental Exam	Fall 2018	ASV 279	All students
Retrieve and analyze complex test data	Departmental Exam	Fall 2018	ASV 279	All students
Interpret test data and recommend corrective action.	Departmental Exam	Fall 2018	ASV 279	All students

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.

Departmentally-developed rubric and answer key

2. Indicate the standard of success to be used for this assessment.

75% of the students will score 70% or higher

3. Indicate who will score and analyze the data.

Departmental faculty will analyze the data.

REVIEWER	PRINT NAME	SIGNATURE	DATE
Department Chair/Area Director	Allen Day	au (a)	1/14/2015
Dean	Brandon Tucker		1/14/5
Vice President for Instruction		10	
Approved for Development	I I I I I I I I I I I I I I I I I I I		1/22/15
Final Approval	William Abernethy	De de site	999/3
President	Rose Bellanca	D) Dillance	2/23//5
Board Approval			3/24/15