

2013-2014 PETITION/PROGRAM SHEET

Award: Technical Certificate Program of Study: Transportation Services Specialization: Diesel Mechanics

About This Certificate . . .

Students learn the fundamentals of electronics, starters, ignition, and charging systems; air conditioning, cooling and heating systems; safety; technical math; use of technical manuals; basic management skills; written and oral communication skills; and leadership. Advanced coursework includes an in-depth study of internal combustion engine disassembly, repair, reassembly, diagnosis and troubleshooting; suspension systems; and alignment and wheel balance. The diesel mechanics specialization concentrates on on-road trucks and light duty diesel-powered vehicles. Career options include automotive/diesel technician, parts and service distributor, industrial sales representative, and service manager.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html

POLICIES:

- 1. It is your responsibility to determine whether you have met the requirements for your degree. Please see the Catalog for a complete list of graduation requirements.
- 2. You must turn in your "Intent to Graduate" form to the Registrar's Office by September 15 if you plan to graduate the following May, and by February 15 if you plan to graduate the following December.
- 3. This program sheet must be submitted with your graduation planning sheet to your advisor during the semester prior to the semester of graduation, no later than October 1 for spring graduates, no later than March 1 for fall graduates.
- 4. Your advisor will sign and forward the Program Sheet and Graduation Planning Sheet to the Department Head for signature.
- 5. Finally, the Department Head or the department administrative assistant will take the signed forms to the Registrar's Office. (Students cannot handle the forms once the advisor signs.)
- 6. If your petition for graduation is denied, it will be your responsibility to reapply for graduation in a subsequent semester. Your "Intent to Graduate" does not automatically move to a later graduation date.
- 7. NOTE: The semester before graduation, you may be required to take a Major Field Achievement Test (exit exam).

NAME:	STUDENT ID #				
LOCAL ADDRESS AND PHONE NUMBER:					
	()				
I, (Signature) on the Program Sheet. I further certify that the gracurrently enrolled and the courses which I complete	, hereby certify that I have completed (or will code listed for those courses is the final course grade received except exert semester. I have indicated the semester in which I will complete the complete that it is a seminated to the semester of the complete that is a seminated to the seminated that is a seminated that is a seminated to the seminated that is a seminated to the seminated that is a seminated to the seminated that is a seminated that is a seminated to the seminated that is a seminated to the seminated that is a seminated that i	omplete) all the courses listed for the courses in which I am ete these courses.			
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Signature of Advisor	Date				
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Signature of Department Head	Date				
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Signature of Registrar	Date	_~			

Technical Certificate: Transportation Services – Diesel Mechanics Posted 6/1/13

Students should work closely with a faculty advisor when selecting and scheduling courses prior to registration.

Degree Requirements:

- 2.00 cumulative GPA or higher in all CMU coursework
- "C" or better in each course which comprises the area of emphasis or specialization.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- A student must follow the CMU graduation requirements either from 1) the program sheet for the major in effect at the time the student officially declares a major; or 2) a program sheet for the major approved for a year subsequent to the year during which the student officially declares the major and is approved for the student by the department head. Because a program may have requirements specific to the degree, the student should check with the faculty advisor for additional criteria. It is the student's responsibility to be aware of, and follow, all requirements for the degree being pursued. Any exceptions or substitutions must be approved by the student's faculty advisor and Department Head.
- Additional Expenses Students entering the program may be required to purchase or have hand tools and appropriate clothing and safety gear with a total cost of approximately \$2,500.00 This does not include cost of required textbooks. These costs may vary with student need and brand or quality of tools or equipment purchased. All safety glasses must meet the minimum industry safety standard of Z-87 with side shields.
- Please see faculty advisor for approved electives.
- See the "Undergraduate Graduation Requirements" in the catalog for additional graduation information

Technical Cer	rtificate: Transportation Serv	vices – I	Diesel M	<u>Iechanics</u>	Course No	Title	Sem.hrs	Grade	Term/Trn
(36 Semester I	Hours) See the current catalog f	or a list	of cours	ses that					
fulfill the requ	irements below. If a course is o	on the ge	eneral e	ducation	TSTC 190	Climate Control Fundamental	ls 1		
list of options	and a requirement for your maj	or, <u>you i</u>	nust use	e it to fulfill	MATH 107	Career Mathematics	3		
the major requ	irement and make a different se	lection	within t	he general	TSTG 120	Industry Safety Practices	3		
education requ	irement.				TSTG 150	Fluid Power	3		
Course No	Title	Sem.hrs	Grade	Term/Trns					
					Restricted Ele	ectives, Choose 13semester hou	ırs from l	ist belov	v. (Please
TSTC 100	Intro to Transportation Service	s 1			see advisor w	hen selecting electives).			
TSTC 101	Vehicle Service & Inspection	2							
TSTC 110	Engine Fundamentals	1							
TSTC 130	Electrical Fundamentals	2							
TSTC 140	Drive Train Fundamentals	1							
TSTC 160	Electrical Control Fundamenta	ls2							
TSTC 170	Chassis Fundamentals	1							
TSTC 171	Brake System Fundamentals	2							
TSTC 180	Fuel System Fundamentals	1							
Choose12 sem	nester hours from:								

TOTA	245 M.	1 D.: T: (4)
151A	245 Manua	l Drive Trains (4)

TSTA 265 Engine Control Services (2)

TSTA 267 Body and Chassis Controls (2)

TSTA 287 Engine Performance and Emissions 2)

TSTG 135 Electrical Component Repair (2)

TSTA 289 Alternative Fueled Vehicles (2)

TSTG 140 Job Shop (4)

TSTD 177Air Systems Repair and Service (2)

TSTG 170 Practical Application (4)

WELD 151 Introduction to Welding (3)

TSTD 215 Diesel Engine Reconditioning (5)

TSTG 175 Hydraulic Brake Service (2)

TSTD 265 Diesel Engine Controls (3)

TSTG 195 Climate Control Service (2)

TSTD 275 Heavy Duty Suspension (2)

TSTG 240 Advanced Job Shop (4)

TSTD 285 Diesel Fuel Injection (2)

TSTG 270 Advanced Practical Applications (4)

TSTG 220 Industry Employment Practices (3)

SUGGESTED COURSE SEQUENCING FOR THE TECHNICAL CERTIFICATE WITH A PROGRAM OF STUDY IN TRANSPORTATION SERVICES, SPECIALIZATION IN DIESEL MECHANICS

This is a recommended sequence of course work. Certain courses may have prerequisites or are only offered during the Fall or Spring semesters. It is the student's responsibility to meet with the assigned advisor and check the 2 year course matrix on the Colorado Mesa website for course availability.

First Semester		Hours	Second
TSTC 100	Introduction to Transportation Service	es 1	TSTC 1
TSTC 101	Vehicle Service and Inspection	2	TSTC 1
TSTC 110	Engine Fundamentals	1	TSTC 1
TSTC 130	Electrical Fundamentals	2	TSTC 1
TSTC 160	Electronic Control Fundamentals	2	TSTG 1
TSTC 170	Chassis Fundamentals	1	TSTAG
TSTG 120	Industry Safety Practices	3	
Electives		3	
MATH 107	Career Mathematics	3	
		18	

Second Semes	ster	Hours
TSTC 140	Drive Train Fundamentals	1
TSTC 171	Brake System Fundamentals	2
TSTC 190	Climate Control Fundamentals	1
TSTC 180	Fuel System Fundamentals	1
TSTG 150	Fluid Power	3
TSTAG/D	Electives	<u>10</u>
		18