



**OFF-SITE DELIVERY OF AN EXISTING PROGRAM FORM**

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**Sponsoring Institution (s):** St Louis Community College- Forest Park  
 Name of Institution (Campus or off-campus residential center in the case of multi-campus institutions).

**Program Title:** Diesel Technology  
**Degree/Certificate:** Associate in Applied Science Degree, Certificate of Proficiency, Certificate of Specialization  
**Institution Granting Degree:** St Louis Community College  
**Delivery Site(s):** Metropolitan Education and Training (MET) Center  
**Mode of Program Delivery:** Traditional

**Geographic Location of Student Access:** 6347 Plymouth Ave, St. Louis, MO 63133

**CIP Classification:** 470605 (Please provide CIP code)  
**Implementation Date:** This program was approved by DHE in October 2001. The program has always been housed at the MET Center, but we have no record of that site ever having been approved as an off-site location. We asking for formal recognition of the MET Center off-site location for delivery of this program.

Semester and Year  
**Cooperative Partners:** [Click here to enter text.](#)

**AUTHORIZATION**

Dr. Donna Dare/ Vice Chancellor for Academic and Student Affairs	7/1/13
Name/Title of Institutional Officer	Signature Date

Dr. Elizabeth Wilcoxson/ Interim Dean, Division of Business, Math, and Technology 314-644-9274	
Person to Contact for More Information	Telephone

## **Impact Statement**

### **Diesel Technology at St. Louis Community College**

Starting in 1995, the Automotive Technology faculty at St. Louis Community College at Forest Park began receiving a growing number of inquires from area heavy duty truck and transit companies. They were hoping to hire post-secondary graduates trained to repair large trucks and other diesel powered vehicles. Unfortunately, only passenger car and light duty truck training occurs at St. Louis Community College; or in the entire St. Louis metropolitan area for that matter. Continuing inquires eventually prompted the college to conduct a Tech Scan in April 1999. The well represented committee revealed that St. Louis area medium and heavy duty truck and bus companies were having to recruit employees trained in diesel mechanics from outside the St. Louis area. The committee agreed that relocating to St. Louis was the primary reason for the lack of success in recruiting these trained diesel graduates. That committee, consisting of 14 representatives of local trucking and bus companies, St. Louis city and county highway and street departments, truck leasing companies and Bi-State transit, asked St. Louis Community College to develop a diesel training program to fill St. Louis' need for trained diesel mechanics. After an exhaustive search for appropriate facilities, the MET Center in Wellston has been chosen to house this new program. For the 2001-2002 academic year, RTEC and Workforce Prep have approved \$439,686 for initial program start-up to hire one new faculty, lease a facility, and purchase shop and classroom equipment. The Diesel Technology advisory committee have also expressed their commitment to provide some lab vehicles, components, and shop equipment. It is anticipated that approximately thirty students per year will enroll in Diesel Technology at St. Louis Community College.

A Tech Scan was conducted on April 8, 1999 with representatives from local private business and industry, St. Louis City Transportation Department, St. Louis County Transportation Department, and Bi-State Transit.

Conducted successful DACUM on July 26, 1996. (included in the hard copy)

Conducted first meeting of newly formed Diesel Technology advisory committee on November 3, 1999 and again on September 8, 2000.

Linn State Technical College tuition is currently \$93 per credit hour compared to \$42 at St. Louis Community College.

Director of Vocational Education at SLCC stated she had never conducted a Tech Scan more positive than for Diesel Technology.

Business, Math & Technology Dean stated that all remarks from the group concerning the Tech Scan were as consistent as he had ever heard.

### **3.) Duplication and Collaboration:**

Freightliner Trucks of St. Louis currently sponsors a Co-Op student from Linn State Technical College and must pay for student's housing when in St. Louis. Service Manager stated he would sponsor a local person which would increase the likelihood of long-term stability of employee.

Patric Cooney, Director of Human Resources at Bi-State Transit stated they must now recruit trained diesel technicians from Nashville Diesel College but if a diesel program can be developed here in St. Louis, he predicts "this group here today at this Tech Scan is only the tip of the iceberg of who is ready to support a diesel program in St. Louis."

Machinist Local 777, who represents St. Louis area diesel mechanics requested a meeting with SLCC on October 25, 1999 to discuss discontinuing their apprenticeship training program at Ranken Technical College and establishing an apprenticeship training requirement for their members at SLCC.

St. Louis Community College has conducted "Diesel Engine Operation" courses attended by employees from local business and industry, city and county highway departments, and Bi-State Transit in 1999 and 2000.

## PROGRAM STRUCTURE (Form PS)

- A.) Total credits required for graduation: 65
- B.) Residency requirements, if any: 15 of the last 25 hours of credit must be completed at St. Louis Community College.
- C.) General education: Total Credits: 23

\*See Program Outline Attached.

Courses (specific courses OR distribution area and credits):

Eng. Comp I	3 cr.	Phys. Scien.	3 cr.
Math	3 cr.	Bus. Elect.	3 cr.
Phys. Ed.	3 cr.	Oral Comm.	3 cr.
Soc. Sci. Elec.	3 cr.		
MO Req.	3 cr.		

D.) Major requirements: Total credits: 42

Die. Eng.	3 cr.	Tr. Brakes	3 cr.	Co-Op I	3 cr.
Susp. & Steer.	3 cr.	Tr. Elect.	3 cr.	HVAC	3 cr.
Tr. Elect.	3 cr.	Drivetrain	3 cr.	Sver. & Parts.	3 cr.
Info. Sys.	3 cr.	PMI	3 cr.	Co-Op II	3 cr.
Fuel Sys.	3 cr.	Welding	3 cr.		

E.) Free elective credits: 0 (Sum of C, D, and E should equal A.)

F.) Requirements for thesis, internship or other capstone experience: completion of Co-Op I and II.

G.) Any unique features such as interdepartmental cooperation: students from Auto Tech programs can take diesel tech courses to enhance their training. Prerequisites will be adjusted based on the content of completed program courses.

**Diesel Technology  
Associate in Applied Science Degree**

**Suggested Plan of Study**

	<i>Semester 1</i>		
DIE:101	Diesel Engine Operation & Repair	3	
DIE:102	Medium/Heavy Truck Suspension and Steering	3	
DIE:103	Medium/Heavy Truck Electricity	3	
DIE:104	Electronic Information Systems & Manuals	3	
ENG:101	English Composition	3	
	<b>Semester 1 TOTAL</b>		<b>15</b>
	<i>Semester 2</i>		
DIE:105	Diesel Fuel Systems	3	
DIE:106	Medium/Heavy Truck Brakes	3	
DIE:107	Medium/Heavy Truck Electronics	3	
	Math Requirement	3	
	Physical Education	2	
	<b>Semester 2 TOTAL</b>		<b>14</b>
	<i>Semester 3</i>		
DIE:206	Medium/Heavy Truck Drivetrains	3	
DIE:201	Preventive Maintenance Inspection	3	
ME :101	Welding Technology	3	
DIE:202	Co-Op Work Experience I Social Science Elective	3	
	MO Requirement (History 101)	3	
	<b>Semester 3 TOTAL</b>		<b>18</b>
	<i>Semester 4</i>		
DIE:203	Heating Ventilation and Air Conditioning	3	
DIE:204	Service and Parts Management	3	
DIE:205	Co-Op Work Experience II Oral Communication Physical Science Business Elective	3 3 3	
	<b>Semester 4 TOTAL</b>		<b>18</b>
			<b>TOTAL 65</b>

**Diesel Technology  
Certificate of Proficiency**

**Program Outline**

ENG:101	College Composition I <i>or</i>	
MTH:108	Elementary Applied Mathematics <i>or</i>	
BUS:104	Introduction to Business Administration	3
DIE:101	Diesel Engine Operation & Repair	3
DIE:102	Medium/Heavy Truck Suspension & Service	3
DIE:103	Medium/Heavy Truck Electricity	3
DIE:104	Electronic Information Systems & Manuals	3
DIE:105	Diesel Fuel Systems	3
DIE:106	Medium/Heavy Truck Brakes	3
DIE:107	Medium/Heavy Truck Electronics	3
DIE:201	Preventive Maintenance Inspection	3
DIE:202	Co-Op Work Experience I	3
DIE:203	Truck Heating, Ventilation & Air Conditioning	3
DIE:204	Service and Parts Management	3
DIE:205	Co-Op Work Experience II	3
DIE:206	Medium/Heavy Truck Drivetrains	3
ME:101	Welding Technology	3
		<b>TOTAL 45</b>

**Diesel Technology  
Certificate of Specialization**

**Program Outline**

ENG:101	College Composition I <i>or</i>	
MTH:108	Elementary Applied Mathematics <i>or</i>	
BUS:104	Introduction to Business Administration	3
DIE:101	Diesel Engine Operation & Repair	3
DIE:102	Medium/Heavy Truck Suspension & Steering	3
DIE:103	Medium/Heavy Truck Electricity	3
DIE:104	Electronic Information Systems Y Manuals	3
DIE:106	Medium/Heavy Truck Brakes	3
		<b>TOTAL 18</b>

# PROGRAM CHARACTERISTICS AND PERFORMANCE GOALS (Form PG)

Institution Name: St. Louis Community College

Program Name: Diesel Technology

Date: August 2001

(Although all of the following guidelines may not be applicable to the proposed program, please carefully consider the elements in each area and respond as completely as possible in the format below. Quantification of performance goals should be included wherever possible.)

## Student Preparation

- No participant requirements or procedures exist for this program that are outside normal institutional requirements or procedures.
- The certificate is especially suited to serving former welfare recipients and dislocated workers because of its short-term, highly specialized nature. Current employees working in related fields, may also be interested in this degree or certificate in order to enhance or upgrade their current work skills. In addition to the traditional populations, these special areas will be targeted.

## Faculty Characteristics

- Normal faculty requirements exist for those teaching in these programs. Any Diesel Technology instructor will meet all St. Louis Community College requirements.
- It is estimated that 85% of the credit hours will be assigned to full-time faculty.
- One FTE Program Coordinator will be assigned to be responsible for coordination, program success, and quality assurance. This coordinator will be a FTE St. Louis Community College employee.
- Faculty will be encouraged to utilize alternative delivery and instructional methods for courses in these programs. In addition, faculty will be encouraged to become members of the Missouri Association of Career and Technical Education, the American Association of Career and Technical Education, and become certified instructors by DESE.

## Enrollment Projections

- It is estimated that by the end of five years the number of student FTE majoring in the program will be 36.
- It is estimated that the percent of full-time and part-time enrollment by the end of five years will have increased from 11 to 56.

### Student and Program Outcomes

- At the end of two years, the number of graduates per annum will be 12. At the end of three years, 36 students will be enrolled in the program. At the end of five years, the number of graduates per annum will be 36.
- Special skills specific to the program are foundational skills in automotive/diesel technology.
- Students will not receive any special licensing as a part of the degree program. There are certain certifications for which the courses provide foundational knowledge, such as ASE Certification. Students will be encouraged to pursue this accreditation.
- It is estimated that 96% of students from the program will be placed in related fields. 2% will be placed in unrelated fields. It is estimated that 0% will be unemployed.
- It is estimated that 2% of the enrollees will transfer to another program in the future upon participation in this program.

### Program Accreditation

- There are plans to aggressively seek accreditation from an outside accrediting body. It is anticipated that the program will be accredited by NATEF.

### Alumni and Employer Survey

- The college does annual alumni surveys and satisfaction of completers of the diesel technology program will be addressed in the survey. It is estimated that 98% of the students surveyed annually will indicate that they are satisfied with the program and feel they are strongly prepared for employment in related fields.
- Employers will be contacted, most likely by phone, as graduates complete the program and begin implementing their new skills in the workplace. It is anticipated that 98% of the businesses receiving employees from the training program will be satisfied with the graduates.

### Institutional Characteristics

- St. Louis Community College is especially suited to offering this degree program. The faculty have been teaching the various courses in the program for a number of years and are very experienced in their areas of expertise. They have an established reputation with the students and businesses in the area.