

**Schuylkill Technology Center  
101 Technology Drive  
Frackville PA 17931**



(Est. 1968)

**MEDIUM/ HEAVY VEHICLE TRUCK  
TECHNOLOGY TECHNICIAN  
PROGRAM COURSE SYLLABUS**

**CIP CODE # 47.0613**

**INSTRUCTOR: Thomas Buff**



**LEVEL ONE STUDENT PERFORMS A PM INSPECTION. TREVOR IS CHECKING ALL FLUIDS FOR PROPER LEVEL.**

**DJ inspects brake lining from a Peterbilt truck**



**Brandon checks the drive line**

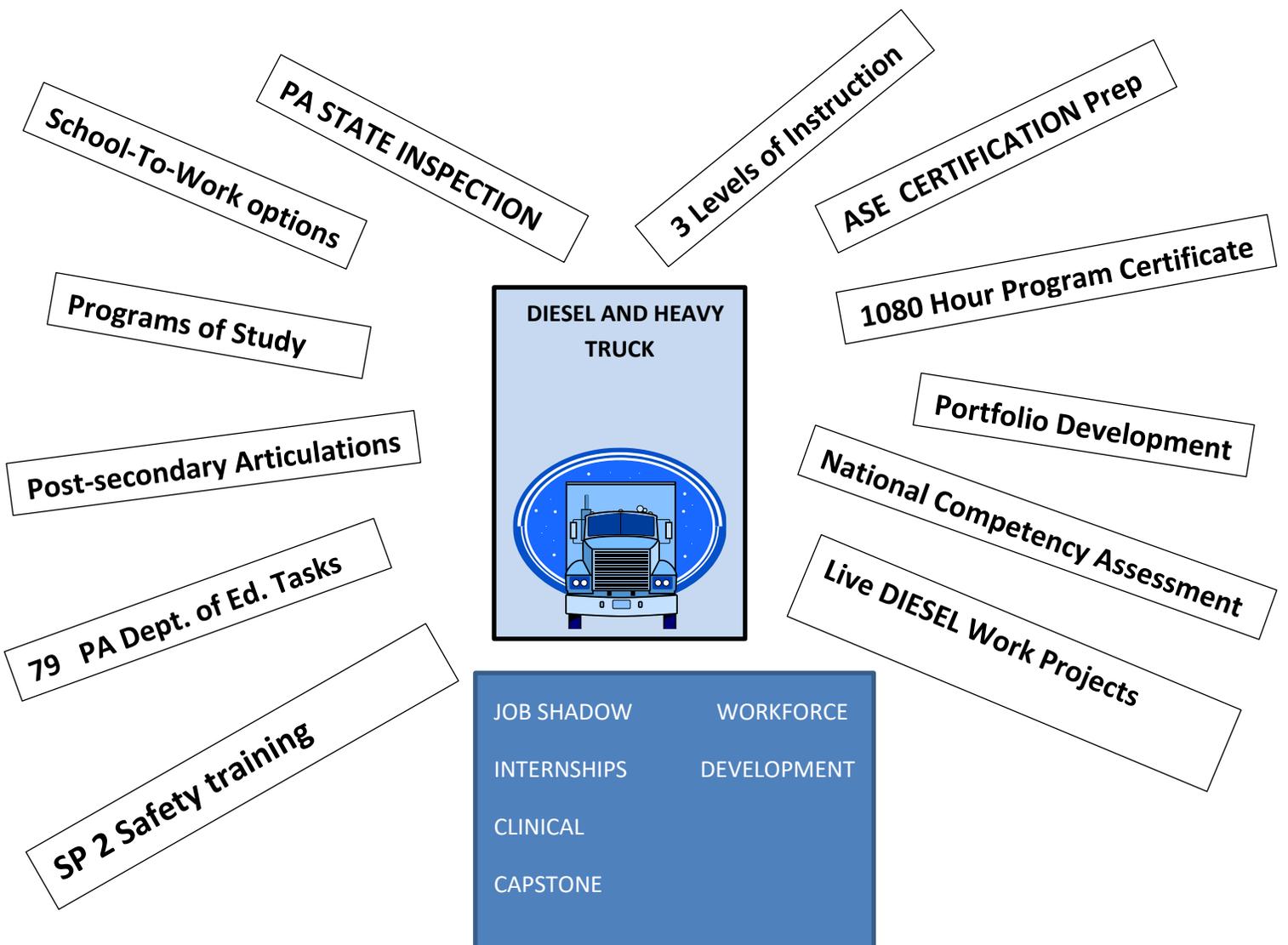


*Technology is our middle name !*

## STC MEDIUM/HEAVY VEHICLE PROGRAM:

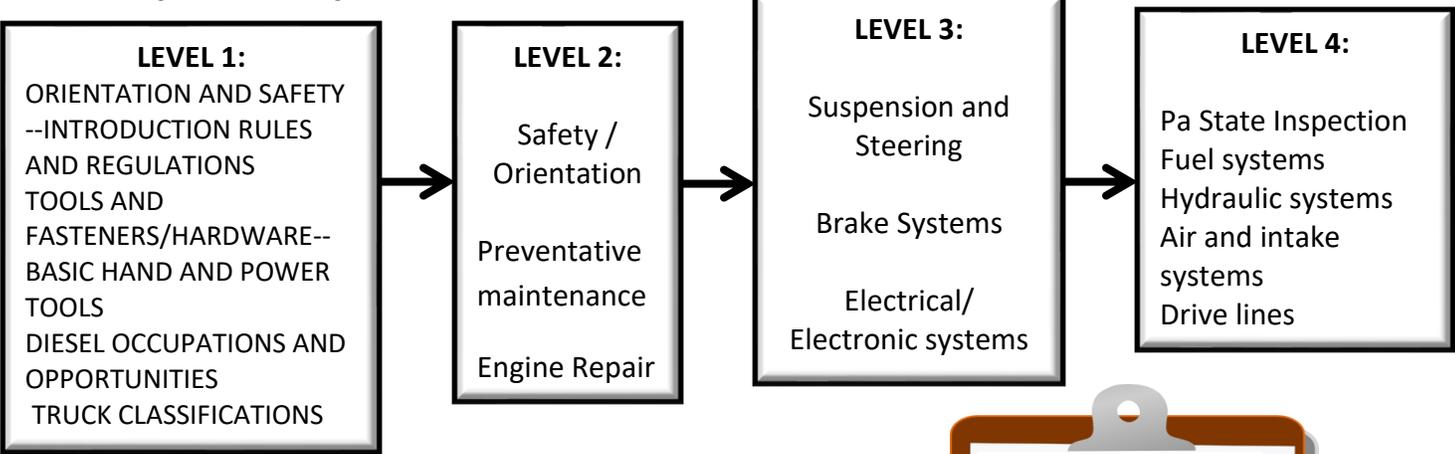
- ✓ Course Length: 1080 hours
- ✓ 79 Program of Study Tasks
- ✓ ASE Industry Certification Prep
- ✓ Pa State Inspection
- ✓ SP 2 Safety Training
- ✓ Cooperative Education

## ~ STC MEDIUM/HEAVY VEHICLE AND TRUCK TECHNOLOGY TECHNICIAN DESCRIPTION ~



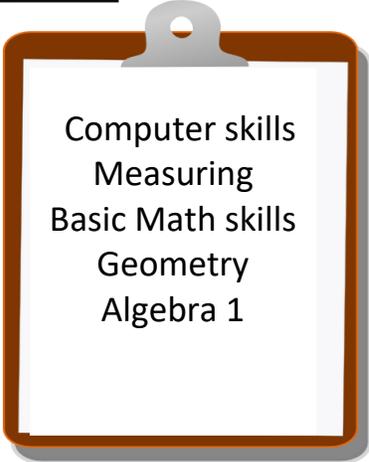
# TASKS

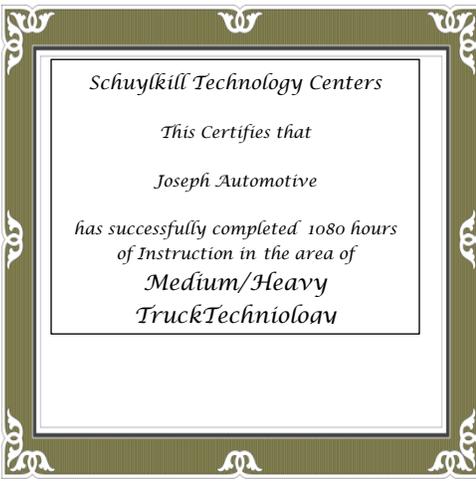
## ~ STC MEDIUM/HEAVY TRUCK AND DIESEL TECHNICIAN PROGRAM of STUDY (79 Tasks) ~



### ~ SUGGESTED PREREQUISITES ~

The following is a list of “suggested” prerequisite courses for a student to consider before entering the STC TRUCK AND DIESEL Program. →





## ~ CERTIFICATIONS ~

STC Medium/Heavy Truck Diesel Technician Certificate  
of completion 1080 hours

Pa State Safety Inspection License\*

Automotive NOCTI Certificate\*

SP 2 Safety Training\*

Air Brake System Training

(\*Pending student achievement)

## ~ ARTICULATION AGREEMENTS ~

(Post-Secondary schools participating with Diesel and Heavy Truck POS Articulation Agreements)

STC is in the process of adding post-secondary schools for articulation agreements.



## ~ STC DIESEL Projects ~ Examples

Level 2	Level 3	Level 4
Identify and use personal protective equipment (PPE).	Perform a Four wheel alignment	Drive line repair
Sp2 Safety Training Perform Preventative Maintenance	Test Batteries, charging systems. Use Ohms Law.	Engine Performance
Engine repair and rebuilding	Diagnostics	Advanced Electrical Diagnosis

## DIESEL/MEDIUM HEAVY DUTY TECHNICIAN CIP 47.0613

9 <sup>th</sup>	hours	10 <sup>th</sup>	hours	11 <sup>th</sup>	hours	12 <sup>th</sup>	hours			
ORIENTATION AND SAFETY -- INTRODUCTION RULES AND REGULATIONS	50	Orientation & Safety	50	Suspension & Steering Systems	115	Electrical / Electronic Systems	60			
TOOLS AND FASTENERS/HARDWARE--BASIC HAND AND POWER TOOLS	70	Tools, Fasteners & Hardware	70	Brake Systems	211	Air Intake & Exhaust Systems	40			
DIESEL OCCUPATIONS AND OPPORTUNITIES	20	Preventative Maintenance	125	Electrical / Electronic Systems	34	Demonstrate the Knowledge of Cooling Systems	40			
TRUCK CLASSIFICATIONS	20	Demonstrate the Knowledge of the Engine	115			Fuel System	40			
SERVICE MANUALS AND ONLINE SERVICE INFORMATION	20					Drive Line	120			
STEERING AND SUSPENSION SYSTEMS	60					Hydraulics	60			
	240		360		360		360			

## ~ STC DIESEL PROGRAM STUDENT RESPONSIBILITIES

→ <i>It is Student's responsibility to...</i>	
1	read, understand and follow the contents of the STC Student Handbook.
2	follow attendance guidelines and absence procedures.
3	be prepared with (clear) safety glasses, and pencil each day.
4	follow shop dress codes (work shoes & safety glasses) and school dress codes.
5	follow all shop and OSHA safety rules (keeping clear safety glasses on in the shop area).
6	to use personal protective equipment (PPE), such as ear protection and dust masks.
7	cooperate with others and work as a team member in the shop.
8	work with diligence and display initiative in the shop.
9	work with a positive attitude which will promote success concerning your career pathway.
10	complete all Automotive tasks and theory assignments to the best of your ability.
11	continually update and enrich your personal portfolio for three semesters.
12	strive towards achieving Industry related certifications (such as NOCTI & and SP 2).
13	monitor the construction workforce both in and outside of the STC Automotive program.
14	stand on your own two feet and make responsible decisions that affect your career.
15	<b>respect all fellow students and STC staff members each day.</b>
<b>STUDENT SIGNATURE:</b> _____ <b>Date:</b> _____ <b>PARENT SIGNATURE:</b> _____ <b>Date:</b> _____	

## ~ STC MEDIUM/HEAVY TRUCK AND DIESEL TECHNICIAN PROGRAM STUDENT ASSESSMENT

~

STC students will be evaluated in three specific areas: **KNOWLEDGE (30%)**, **WORK ETHIC (30%)**, and **SKILL (40%)**. A daily grade under the "Work Ethic" category will account for a maximum of ten points per day. See the "Assessment Rubric" below for examples of evaluation.

The Medium /Heavy Truck Diesel students will be evaluated in three specific areas: **KNOWLEDGE (30%)**, **WORK ETHIC (30%)**, and **SKILL (40%)**. A daily grade under the "Work Ethic" category will account for a maximum of ten points per day. See the "Assessment Rubric" below for examples.

**- STC MEDIUM/HEAVY TRUCK AND DIESEL TECHNICIAN Program  
North Campus Assessment Rubric -**

**KNOWLEDGE – 30%**

LEARNING GUIDES	Work diligently on modules to completion. Work is neat and correct.	1-100
	Drawings are neat, complete, and on time.	1-100
RELATED JOBS	Examples: Oil Changes, Wheel Alignments, Etc	1-100
KWL READINGS	16 Automotive related readings with written reports - (neat & complete).	1-100
PORTFOLIO	As per GUIDELINES – DUE on 60th day of 90 day cycle.	1-100
TESTS	Each POS unit has a test. Use “Test Study Guide” to prepare for tests.	1-100

**WORK ETHIC – 30%**

ATTENDANCE	Good attendance and effort; completes make-up work.	10 POINTS PER DAY Non - excused absences = 0
ATTITUDE	Respectful towards other students, staff, and school property.	
INITIATIVE	Moves on to the next job without being told; does not complain.	
DILLIGENCE	Stays on task until completion / focused on the job.	
COOPERATION	Works effectively with others on a daily basis. Helps others.	
RESPONSIBILITY	Acts mature and is accountable in all areas throughout the day.	

**(POS TASK LISTING): SKILL – 40%**

SAFETY	Safety glasses on? Shop safety rules followed?	1-100
USE of MATERIALS	Properly select material for repair	1-100
USE of TOOLS	Select appropriate tools for job. Uses tools safely. Maintain and store tools.	1-100
CLEAN-UP	Floors swept? Tools and materials properly stored?	1-100
TASK/JOB QUALITY	Skill: Cleanliness is important when working on customers cars	1-100

## ~ STC Heavy Truck and Diesel SUGGESTIONS ~

### LEVEL 1 & 2:

**Safety glasses are provided for 1<sup>st</sup> year only.**

- Work shoes (hard sole)
- Work clothes Blue
- Notebook
- 3 Ring Binder
- Padlock (locker)

### LEVEL 3:

• **Continue with Level 1 & 2 items:**

- Driver's License if taking Pa State Inspection

### LEVEL 4:

• **Continue with Levels 2 & 3 items:**

- Driver's License if taking Pa State Inspection

“The Trucking and Heavy Equipment industry is continually searching for skilled technicians to service diagnose and repair today's vehicles. The average trucks utilize many on Board computers. Technology is moving at a rapid pace which drives the need for skilled technicians nationwide. Jump on board and the sky is the limit in this field.



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