

Program Planning Tool

Program Title: CIP 47.0613 DIESEL TRUCK TECHNOLOGY

Student Name: _____

This document has been designed as a tool to facilitate student placement decisions and provides important information about the program. The chart on the reverse side is designed to assist in the identification of necessary skills, present educational levels, and supports, if any, that are needed to foster program success.

Program Completion Requirements

A successful student will...

- Secondary Academic Course Requirements: The PA Dept. of Education's focus is to ensure every student is college and career ready, therefore all students are recommended to follow a college prep sequence of academic classes. Courses such as applied math or general science are not appropriate for this program. PDE's goal is to have all students perform at the competent or advanced level on the Keystone Exams and Program of Study end-of-program assessment (NOCTI).
- Complete an Occupational Competency Assessment (i.e. NOCTI end-of-program exam) and score at the "competent" or "advanced" level. This end-of-program exam will cover the full scope of the program of study curriculum and includes (1) multiple choice test (2) performance test consisting of occupational related tasks scored & evaluated by industry judges.
- Earn a minimum of one industry recognized certification. Students will be encouraged and expected to earn all recognized industry certifications that make up the scope of the curriculum. Accommodations are not permitted for industry certifications. These include: Pennsylvania State Safety Inspection Certification, Pennsylvania State Emissions Inspection Certification, Valvoline Motor Oil Specialist Certification, S/P2, and Section 609 Certification for Refrigerant Recycling and Recovery.
- Complete the approved program curriculum and earn a minimum of one RMCTC Job Title aligned with the student's career objective. Job titles are identified on the program task list, aligned with local workforce needs and high priority employment occupations, and annually reviewed and approved by the program's occupational advisory committee.
- Successful completion of Keystone Exams as determined by sending school district.
- Maintain a 95% attendance rate or better.
- Transition on to a post-secondary institution, military or related fulltime employment aligned to their CTC program of study.

Instructional Process/Specifications

A successful student will...

- Perform a wide variety of tasks in a laboratory environment with equipment consistent with industry standards. Up to 25 students are assigned to work "independently" and in "small teams". Students' progress by using learning guides in a self-directed manner. Working in the laboratory, students will be required to use hand tools, hydraulic lifts, chemicals, heavy equipment, welding equipment, cutting tools and power tools.
- The laboratory can have very high noise levels at times. Due to the amount of dust and fumes, students with allergies, asthma and/or other respiratory conditions should not consider this program of study or profession without consulting with a physician. Students must be alert and aware of the surroundings at all times as vehicles move in and out of the laboratory. This requires self-discipline and strict adherence to rules to ensure safety of self and others.
- Participate in classroom theory and laboratory applications for generally 2 ½ hours each day; students will spend 50% of their time in classroom theory and 50% of their time doing laboratory applications and live work.
- Participate in Career & Technical Student Organizations including SkillsUSA and/or National Technical Honor Society.
- Participate in a paid or unpaid work based learning related to the Program of Study (cooperative education, clinical internship, and/or job shadowing).
- Complete written and performance tests. Students will be evaluated weekly on occupational skill performance using rubrics. In addition, students will be evaluated daily on work ethics. Progress is measured by test performance, task completion and work ethic.
- Read and study textbooks and technical manuals. Most textbooks are written at a 10th to 11th grade reading level and most technical manuals are written at a higher level and are accessed on line.
- Complete homework on time. Homework typically involves chapter or workbook assignments, on line research assignments and writing assignments.
- Purchase appropriate work and safety attire, tools, and equipment. Following is an estimated breakdown of costs: UNIFORM: \$100

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CTE Requirements	Present Educational Ability/Level	Support Needs
<p>Program Completion – Strong self-determination skills and understanding of personal strengths and weaknesses. Ability to meet industry established standards of performance, complete the program of study without curriculum modifications, and earn industry certifications without testing accommodations.</p>		
<p>Reading and Language Arts Level- Text and manuals written on a 10th-11th grade reading level. Proficient on end-of-course exam (Keystone). Reading comprehension requires understanding written sentences and paragraphs in work related documents. Certification exams require reading, writing and comprehension of English. Ability to read and understand service and technical manuals. NOCTI Assessment & Industry Certification Exams require a proficiency in English language skills.</p>		
<p>Math Level - At grade level and proficient on end-of-course exam (Keystone). Knowledge of arithmetic, algebra, geometry and their applications.</p>		
<p>Aptitude – Mechanical aptitude, oral comprehension and expression, active listening, analytical thinking, attention to detail, deductive and inductive reasoning, problem solving and trouble shooting skills.</p>		
<p>Safety & Physical – Manual dexterity; fine motor skills; hand-eye-body coordination; frequent standing bending and lifting required; high degree of self-discipline and focus needed for safety around moving equipment, hand tools, power tools and other equipment found in the industry; ability to work in tight spaces; ability to work independently, read and follow directions; stamina to stand for long periods of time. Safe operation of industry-grade tools and equipment. Ability to lift 50 lbs.</p>		
<p>Interpersonal/ Social – Integrity, self-control, cooperation, as well as the ability to work independently with little or no supervision. Ability to work in a team.</p>		
<p>Other Occupational/Program Considerations - Ability to work independently and read and follow directions. Stamina needed to stand for long periods of time. Good attention to detail. Environment with several sensory inputs, dust and fumes, loud and sometime startling noises, ongoing background noise, moving people and vehicles.</p>		