

Introduction Transportation, Distribution and Logistics

The Transportation, Distribution and Logistics cluster includes the planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance. This area provides instruction that develops manipulative skills, safety, judgment, technical knowledge, and related occupational information. These skills prepare students for profitable employment in trade and industrial pursuits. It also trains students for industrial occupations through contextual instruction in the layout, design, production, processing, assembling, testing, diagnosing, and maintaining of industrial, commercial, and residential goods and services.

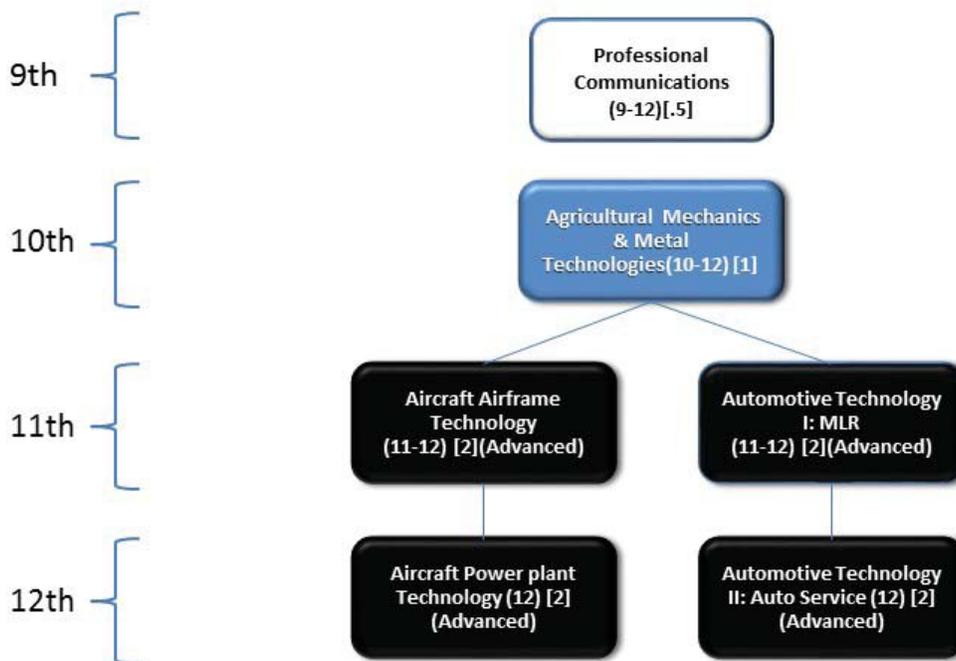
Individuals who have actual wage-earning experiences in the field provide instruction. Classrooms are laboratory equipped to emulate industry or are actual work sites, through such training arrangements as cooperative education, internships, or apprenticeships. Opportunities to develop and apply leadership, social, civic, and business-related skills are provided through the Skills USA, the student organization for young people enrolled in these programs. As an integral part of the instructional program, club activities enhance and expand classroom instruction.

Career Opportunities Transportation, Distribution and Logistics

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|-------------------------------|---|----------------------------|
| Aviation Technician | Heavy Equipment Technician | Automobile Service Advisor |
| Aircraft Mechanic | Heating & Cooling Mechanic | Aircraft Pilot |
| Small Engine Mechanic | Instrumentation & Electrical Specialist | Air Traffic Controller |
| Diesel Engine Mechanic | Farm Equipment Mechanic | Jet Engine Technician |
| Industrial Machine Technician | Automobile Collision Technician | Automobile Design Engineer |

Sequences Transportation, Distribution and Logistics

Transportation, Distribution & Logistics



Business and Industry

T8010

Automotive Technology I: Maintenance and Light Repair

- ▶ **Grade Placement** 11-12
- ▶ **Credits** 2
- ▶ **Prerequisite**..... **Recommended: Ag Mechanics & Metal Technologies**
- ▶ **Location**..... **Advanced Technology Complex**
- ▶ **Partnerships**..... **James Wood Automotive, Gentry Mufflers**

The Automotive Technology student will gain knowledge and skills in the repair, maintenance, and diagnosis of motor vehicles. This study allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. Students will explore career and post secondary opportunities as they relate to the automotive repair industry.

T8015

Automotive Technology II: Automotive Service

- ▶ **Grade Placement** 12
- ▶ **Credits** 2
- ▶ **Prerequisite**..... **Automotive Technology I: MLS**
- ▶ **Location**..... **Advanced Technology Complex**
- ▶ **Partnerships**..... **James Wood Automotive, Gentry Mufflers**

The Automotive Technology II student will build on the knowledge and skills in the repair, maintenance, and diagnosis of motor vehicles acquired from Automotive Technology I. Students will explore career and post secondary opportunities as they relate to the automotive repair industry.

T8020

Aircraft Airframe Technology

- ▶ **Grade Placement** 11-12
- ▶ **Credits** 2
- ▶ **Prerequisite**..... **None**
- ▶ **Location**..... **Advanced Technology Complex**
- ▶ **Partnerships**..... **Meyer Aircraft Company, Tarrant County College, US Aviation, Tina's Pilot Shop**

In Aircraft Airframe Technology, students gain knowledge and skills in the general repair, maintenance, and diagnosis of aircraft systems. This study allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. Students will be introduced to the aviation industry, air traffic control system, ground operations, as well as weather considerations, reporting, and prediction. Students will also learn the safety procedures, uses, and care of major shop equipment and tools. Students will explore career and post secondary opportunities as they relate to the aviation repair industry.

T8025

Aircraft Powerplant Technology

- ▶ **Grade Placement** 12
- ▶ **Credits** 2
- ▶ **Prerequisite**..... **Aircraft Airframe Technology**
- ▶ **Location** **Advanced Technology Complex**
- ▶ **Partnerships** **Meyer Aircraft Company, Tarrant County College, US Aviation, Tina's Pilot Shop**

In Aircraft Powerplant Technology, students gain knowledge and skills in the general repair, maintenance, and diagnosis of aircraft systems. Students will expand their knowledge of the aviation industry, air traffic control system, ground operations, as well as weather considerations, reporting, and prediction. Students will also learn engine start up, aircraft movement, and taxi procedures.