Illinois Career Programs in Transportation, Distribution, and Logistics



These career programs are focused on planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional support services such as transportation infrastructure planning and management, logistics services, mobile equipment, and facility maintenance. All career and technical education programs provide students opportunities for practical application of academic concepts. The Strengthening Career and Technical Education for the 21st Century Act (Perkins V) emphasizes student achievement in science, English language arts, and mathematics. To assist local education agencies in selecting courses best suited for this purpose, specific CTE courses with emphasis on these subjects have been highlighted below. Courses best suited for science applications are shown in yellow, mathematics are shown in blue, and English language arts are shown in orange. Local boards of education may allow CTE courses to be substituted for graduation requirements. Refer to 105 Illinois Compiled Statutes 5/27-22 and 105 ILCS 5/27-22.05 for more information.

Science Applications Math Applications ELA Applications

CAREER CLUSTER	Manufacturing	Transportation, Distribution, and Logistics					
CIP	47.0409	47.0603	47.0604	47.0608	49.0102	49.0205	49.0209
TEACHER LICENSURE ENDORSEMENT	PEL with TEED (Technology Education) ELS with MPWO (Parts and Warehousing)	PEL with TEED (Technology Education) ELS with TDTA (Auto-body)	PEL with TEED (Technology Education) ELS with TDTT (Automotive Technician)	PEL with TEED (Technology Education) ELS with TAIR (Aircraft Technology)	ELS with TPIL (Professional Pilot)	ELS with TTBD (Truck and Bus Driver)	PEL with TEED (Technology Education) ELS with TFOR (Forklift Operations)
РАТНМАУ	Parts and Warehousing Operations and Maintenance Technician	Auto-body/Collision and Repair Technology/ Technician	Automobile/ Automotive Mechanics Technology/ Technician	Aircraft Power-plant Technology/ Technician	Airline / Commercial / Professional Pilot and Flight Crew	Truck and Bus Driver/Commercial Vehicle Operator and Instructor	Forklift Operation/Operator
			GROUP 1: ORIENTATION COL	JRSES (Minimum Selection: O	ne course from Group 1 or 2)		
	Career Exploration 22151A001						
	Exploration of Transportation, Distribution and Logistics 20001A002						
ORIENTATION COURSES	Introduction to Technology and Engineering (Industrial) 21052A002						
ATION	Production Technology 13052A001						
ORIENT	Communication Technology 11002A001						
	Energy Utilization Technology 20101A001						
	Transportation Technology 20001A001	Transportation Technology 20001A001	Transportation Technology 20001A001	Transportation Technology 20001A001	Transportation Technology 20001A001	Transportation Technology 20001A001	Transportation Technology 20001A001
	GROUP 2: INTRODUCTORY COURSES						
INTRO COURSES	Foundations of Technology 21052A001						

					ND LOGISTICS (2023-2		
CAREER CLUSTER	Manufacturing	Transportation, Distribution, and Logistics	Transportation, Distribution, and Logistics	Transportation, Distribution, and Logistics	Transportation, Distribution, and Logistics	Transportation, Distribution, and Logistics	Transportation, Distribution, and Logistics
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CIP	47.0409	47.0603	47.0604	47.0608	49.0102	49.0205	49.0209
49	Industrial Safety 13004A001	Industrial Safety 13004A001	Industrial Safety 13004A001	Industrial Safety 13004A001	Industrial Safety 13004A001	Industrial Safety 13004A001	Industrial Safety 13004A001
SE	Energy and Power of	Energy and Power of	Energy and Power of	Energy and Power of	Energy and Power of	Energy and Power of	Energy and Power of
l ä	Transportation Systems	Transportation Systems	Transportation Systems	Transportation Systems	Transportation Systems	Transportation Systems	Transportation Systems
i c	20102A001	20102A001	20102A001	20102A001	20102A001	20102A001	20102A001
INTRODUCTORY COURSES CONTINUED			Small Engine Repair 20110A001	Small Engine Repair 20110A001			
<u>à</u> 8			Beginning				
8			Automotive Service				
			20106A001				
_			Beginning Welding				
			13207A003	CKILLS COLIDSE (NAT. 1 C.	Institut (A)		
			GROUP 3	SKILLS COURSE (Minimum Se	lection 1)		
S	Warehouse Operations I	Auto-Body I	Automotive Technician I	Aircraft Technician I	Aviation/Pilot I	Truck and Bus Driving	Light and Heavy
LLS RSE	20152A001	20116A001	20104A001	20113A001	20053A001	20051A001	Equipment Operation 20052A001
SKILLS COURSES	Distribution and Logistics		Diesel Mechanics I				20032A001
ō	20151A001		20107A002				
	20151A001 2010/A002 GROUP 4: ADVANCED COURSES						
	Warehouse Operations II	Auto-Rody II	ı				
	Warehouse Operations II	Auto-Body II 20116A002	Automotive Technician II	Aircraft Technician II	Aviation/Pilot II		
	Warehouse Operations II 20152A002	Auto-Body II 20116A002	Automotive Technician II 20104A002		Aviation/Pilot II 20053A002		
SES	<u>-</u>	-	Automotive Technician II 20104A002 Diesel Mechanics II	Aircraft Technician II	Aviation/Pilot II		
URSES	<u>-</u>	-	Automotive Technician II 20104A002	Aircraft Technician II	Aviation/Pilot II 20053A002 Drone Operation and		
COURSES	<u>-</u>	-	Automotive Technician II 20104A002 Diesel Mechanics II	Aircraft Technician II	Aviation/Pilot II 20053A002 Drone Operation and Maintenance		
CED COURSES	<u>-</u>	-	Automotive Technician II 20104A002 Diesel Mechanics II 20107A003	Aircraft Technician II	Aviation/Pilot II 20053A002 Drone Operation and Maintenance 20099A001		
ANCED COURSES	<u>-</u>	-	Automotive Technician II 20104A002 Diesel Mechanics II 20107A003 Hybrid Engines	Aircraft Technician II	Aviation/Pilot II 20053A002 Drone Operation and Maintenance 20099A001 Pilot Training		
DVANCED COURSES	<u>-</u>	-	Automotive Technician II 20104A002 Diesel Mechanics II 20107A003 Hybrid Engines 20119A001	Aircraft Technician II	Aviation/Pilot II 20053A002 Drone Operation and Maintenance 20099A001 Pilot Training		
ADVANCED COURSES	<u>-</u>	-	Automotive Technician II 20104A002 Diesel Mechanics II 20107A003 Hybrid Engines 20119A001 Small Vehicle Mechanics	Aircraft Technician II	Aviation/Pilot II 20053A002 Drone Operation and Maintenance 20099A001 Pilot Training		
ADVANCED COURSES	<u>-</u>	-	Automotive Technician II 20104A002 Diesel Mechanics II 20107A003 Hybrid Engines 20119A001 Small Vehicle Mechanics 20109A001	Aircraft Technician II	Aviation/Pilot II 20053A002 Drone Operation and Maintenance 20099A001 Pilot Training		
ADVANCED COURSES	<u>-</u>	-	Automotive Technician II 20104A002 Diesel Mechanics II 20107A003 Hybrid Engines 20119A001 Small Vehicle Mechanics 20109A001 Advanced Small	Aircraft Technician II	Aviation/Pilot II 20053A002 Drone Operation and Maintenance 20099A001 Pilot Training		
ADVANCED COURSES	<u>-</u>	-	Automotive Technician II 20104A002 Diesel Mechanics II 20107A003 Hybrid Engines 20119A001 Small Vehicle Mechanics 20109A001 Advanced Small Engine Repair 20110A003	Aircraft Technician II	Aviation/Pilot II 20053A002 Drone Operation and Maintenance 20099A001 Pilot Training 20055A001		
	20152A002 Transportation,	20116A002 Transportation,	Automotive Technician II 20104A002 Diesel Mechanics II 20107A003 Hybrid Engines 20119A001 Small Vehicle Mechanics 20109A001 Advanced Small Engine Repair 20110A003 GROUP Transportation,	Aircraft Technician II 20113A001 5: WORKPLACE EXPERIENCE C Transportation,	Aviation/Pilot II 20053A002 Drone Operation and Maintenance 20099A001 Pilot Training 20055A001 OURSES Transportation,	Transportation,	Transportation,
	Transportation, Distribution, and Logistics	Transportation, Distribution, and Logistics	Automotive Technician II 20104A002 Diesel Mechanics II 20107A003 Hybrid Engines 20119A001 Small Vehicle Mechanics 20109A001 Advanced Small Engine Repair 20110A003 GROUP Transportation, Distribution, and Logistics	Aircraft Technician II 20113A001 5: WORKPLACE EXPERIENCE C Transportation, Distribution, and Logistics	Aviation/Pilot II 20053A002 Drone Operation and Maintenance 20099A001 Pilot Training 20055A001 OURSES Transportation, Distribution, and Logistics	Distribution, and Logistics	Distribution, and Logistics
	Transportation, Distribution, and Logistics Workplace Experience	Transportation, Distribution, and Logistics Workplace Experience	Automotive Technician II 20104A002 Diesel Mechanics II 20107A003 Hybrid Engines 20119A001 Small Vehicle Mechanics 20109A001 Advanced Small Engine Repair 20110A003 GROUP Transportation, Distribution, and Logistics Workplace Experience	Aircraft Technician II 20113A001 5: WORKPLACE EXPERIENCE C Transportation, Distribution, and Logistics Workplace Experience	Aviation/Pilot II 20053A002 Drone Operation and Maintenance 20099A001 Pilot Training 20055A001 OURSES Transportation, Distribution, and Logistics Workplace Experience	Distribution, and Logistics Workplace Experience	Distribution, and Logistics Workplace Experience
	Transportation, Distribution, and Logistics Workplace Experience 20998A002	Transportation, Distribution, and Logistics Workplace Experience 20998A002	Automotive Technician II 20104A002 Diesel Mechanics II 20107A003 Hybrid Engines 20119A001 Small Vehicle Mechanics 20109A001 Advanced Small Engine Repair 20110A003 GROUP Transportation, Distribution, and Logistics Workplace Experience 20998A002	Aircraft Technician II 20113A001 5: WORKPLACE EXPERIENCE C Transportation, Distribution, and Logistics Workplace Experience 20998A002	Aviation/Pilot II 20053A002 Drone Operation and Maintenance 20099A001 Pilot Training 20055A001 OURSES Transportation, Distribution, and Logistics Workplace Experience 20998A002	Distribution, and Logistics Workplace Experience 20998A002	Distribution, and Logistics Workplace Experience 20998A002
	Transportation, Distribution, and Logistics Workplace Experience 20998A002 Parts and Warehousing	Transportation, Distribution, and Logistics Workplace Experience 20998A002 Auto-body Technician	Automotive Technician II 20104A002 Diesel Mechanics II 20107A003 Hybrid Engines 20119A001 Small Vehicle Mechanics 20109A001 Advanced Small Engine Repair 20110A003 GROUP Transportation, Distribution, and Logistics Workplace Experience 20998A002 Automotive Technician	Aircraft Technician II 20113A001 5: WORKPLACE EXPERIENCE C Transportation, Distribution, and Logistics Workplace Experience 20998A002 Aircraft Technician	Aviation/Pilot II 20053A002 Drone Operation and Maintenance 20099A001 Pilot Training 20055A001 OURSES Transportation, Distribution, and Logistics Workplace Experience 20998A002 Pilot and Flight Crew	Distribution, and Logistics Workplace Experience 20998A002 Truck/Bus Operation	Distribution, and Logistics Workplace Experience 20998A002 Forklift Operation
WORKPLACE EXPERIENCE ADVANCED COURSES	Transportation, Distribution, and Logistics Workplace Experience 20998A002	Transportation, Distribution, and Logistics Workplace Experience 20998A002	Automotive Technician II 20104A002 Diesel Mechanics II 20107A003 Hybrid Engines 20119A001 Small Vehicle Mechanics 20109A001 Advanced Small Engine Repair 20110A003 GROUP Transportation, Distribution, and Logistics Workplace Experience 20998A002	Aircraft Technician II 20113A001 5: WORKPLACE EXPERIENCE C Transportation, Distribution, and Logistics Workplace Experience 20998A002	Aviation/Pilot II 20053A002 Drone Operation and Maintenance 20099A001 Pilot Training 20055A001 OURSES Transportation, Distribution, and Logistics Workplace Experience 20998A002	Distribution, and Logistics Workplace Experience 20998A002	Distribution, and Logistics Workplace Experience 20998A002

A quality CTE program delivers all required elements of Illinois' definition of Size, Scope, Quality. CTE program elements include: a sequence of courses, each educational entity offering approved courses provides assurance that the course content includes at a minimum the State course description, meets the State's minimum requirements for course offerings by program, curriculum aligned to state recognized learning standards & industry standards, career pathway guidance, resources to support program/course delivery (licensed & qualified staff, appropriate facilities, adequate equipment, instructional materials, work-based learning experiences, special populations support services, an active affiliated CTSO chapter), articulation/dual credit agreements, documentation of state agency certification or licensing requirements for occupations regulated by law or licensure, & content which prepare students for reflective of current labor & opportunity for workplace experience or a structured capstone course. Orientation courses are suggested to be taught at the prior-to-secondary or 9th grade levels. Introductory level courses are suggested to be taught at the 10th – 12th grade levels. Workplace Experiences Courses are suggested to be taught at the 12th grade level.

Group	State Course Code	State Course Title	State Course Description
Group 1	22151A001	Career Exploration	Career Exploration courses help students identify and evaluate personal goals, priorities, aptitudes, and interests with the goal of helping them make informed decisions about their careers. These courses expose students to various sources of information on career and training options and may also assist them in developing job search and employability skills.
Group 1	21052A002	Introduction to Technology and Engineering (Industrial)	Introduction to Technology & Engineering is comprised of the following areas: Production, Transportation, Communication, Energy Utilization and Engineering Design but is not limited to these areas only. This course will cover the resources, technological processes, industrial applications, material sciences, technological impact and occupations encompassed by that system.
Group 1	20001A002	Exploration of Transportation, Distribution and Logistics	Exploration of Transportation, Distribution, and Logistics courses introduce students to careers that involve the planning, management, and movement of people, materials, and products using any of several modes of transport. Such careers may also involve infrastructure, vehicular maintenance and repair, and operating or managing facilities that hold what is being transported. Therefore, specific course topics vary widely and depend upon the careers being explored.
Group 1	13052A001	Production Technology	Production Technology is a course designed to foster an awareness and understanding of manufacturing and construction technology. Through a variety of learning activities, students are exposed to many career opportunities in the production field. Experiences in manufacturing include product design, materials and processes, tools and equipment including computers, safety procedures, corporate structure, management, research and development, production planning, mass production, marketing and servicing. In construction, students are exposed to site preparation, foundations, building structures, installing utilities, and finishing and servicing structures.
Group 1	11002A001	Communication Technology	Communication Technology is a course designed to foster an awareness and understanding of the technologies used to communicate in our modern society. Students gain experience in the areas of design and drafting, radio and television broadcasting, computers in communication, photography, graphic arts, and telecommunications.
Group 1	20101A001	Energy Utilization Technology	Energy Utilization Technology is a course designed to foster an awareness and understanding of how we use energy in our industrial technological society. Areas of study include conversion of energy, electrical fundamentals, solar energy resources, alternate energy resources such as wind, water, and geothermal; fossil fuels, nuclear power, energy conservation, and computer uses in energy technology. Students use laboratory experiences to become familiar with current energy technologies.
Group 1	20001A001	Transportation Technology	Transportation Technology is a course designed to foster an awareness and understanding of the various transportation customs that make up our mobile society. Through laboratory activities, students are exposed to the technologies of and career opportunities involved in material handling, atmospheric and space transportation, marine transportation, terrestrial transportation, and computer uses in transportation technology.
Group 2	21052A001	Foundations of Technology	The course employs teaching/learning strategies that enable students to build their own understanding of new ideas. It is designed to engage students in exploring and deepening their understanding of "big ideas" regarding technology and apply technological processes to solve real problems and develop knowledge and skills to design, modify, use and apply technology in the following areas: engineering design, manufacturing technologies, construction technologies, energy & power, information & communication technologies and emerging technologies.
Group 2	13004A001	Industrial Safety	Industrial Safety courses provide students with instruction in safe operating procedures related to various trades. Course topics may include the importance of standard operation procedures, agencies and regulations related to occupational safety and hazard prevention, and the dangers of particular materials.
Group 2	20102A001	Energy and Power of Transportation Systems	Energy and Power of Transportation Systems will prepare students to meet the expectations of employers in this industry and to interact and relate to others. Students will learn the technologies used to provide products and services in a timely manner. The businesses and industries of the Transportation, Distribution, and Logistics Career Cluster are rapidly expanding to provide new career and career advancement opportunities. Performance requirements will include academic and technical skills. Students will need to understand the interaction between various vehicle systems, which

		CARLER FROGRA	ANIS IN TRANSPORTATION, DISTRIBUTION, AND LOGISTICS (2023-2024)
			could include engines, transmissions, brakes, fuel, cooling, and electrical. Students will also learn about the logistics
			used to move goods and services to consumers, as well as the components of transportation infrastructure.
Group 2	20110A001	Small Engine Repair	Small engine repair is an instructional program that prepares individuals to troubleshoot, service, and repair a variety of small internal-combustion engines, involving both two and four cycle engines used on portable power equipment. Planned activities will allow students to become knowledgeable of fundamental principles and technical skills related to troubleshooting, repairing, identifying parts and making precision measurements. Safety will be a key component of this class. Students will also be exposed to career opportunities related to small engines.
Group 2	20106A001	Beginning Automotive Service	Beginning Automotive Service course emphasizes preventative auto maintenance and automobile troubleshooting. Course content typically includes tune-up, oil change, and lubrication skills; tire replacement, alignment, and balancing; and basic knowledge of brake, cooling, electrical, emission, fuel, ignition, steering, suspension, and transmission systems.
Group 2	13207A003	Beginning Welding	Beginning Welding course enables students to gain knowledge of the properties, uses, and applications of various metals, skills in various processes used to join and cut metals (such as oxyacetylene, shielded metal, metal inert gas, and tungsten arc processes), and experience in identifying, selecting, and rating appropriate techniques. Welding courses often include instruction in interpreting blueprints or other types of specifications.
Group 3	20152A001	Warehouse Operations I	This course provides planned learning activities designed to allow students to gain knowledge and skills applicable to the Parts, Warehousing, and Inventory Management Operations occupation. Students are instructed in areas of safety, inventory management, warehouse operations, and inventory control.
Group 3	20151A001	Distribution and Logistics	Distribution and Logistics courses provide training for entry-level employment in distribution and logistics. This course focuses on the business planning and management aspects of distribution and logistics. To prepare for success, students will learn, reinforce, experience, apply, and transfer their knowledge and skills related to distribution and logistics. Topics could include the comparative advantages of various forms of transportation, distribution networks, processes for tracking large shipments of material, transportation of goods in a safe and secure manner, and packaging.
Group 3	20116A001	Auto-Body I	This course provides learning experiences designed to allow students to gain knowledge and skills in repairing automotive bodies and fenders. Planned learning activities in this course are balanced to allow students to become knowledgeable in the fundamental aspects of auto body repair methods and techniques, and to develop practical skills in the basic operations required to prepare the automobile for final paint application. Instruction emphasizes safety principles and practices, hazardous materials, auto body nomenclature, function of individual components, the use of parts manuals, the identification of replacement parts, the use of auto body fillers, the use of plastic /glass fillers and special body repair tools, refinishing problems, and paint preparation procedures. Practical activities relate to experiences in writing and calculating damage estimates, removing and installing body panels, trim, and glass; straightening by using hammers, bucks, and jacks; and smoothing by filing, grinding, and using fillers. Students also learn to prime the area to be painted and prepare the surface for final paint application. These experiences and skills are related to metal, fiberglass, or urethane components
Group 3	20104A001	Automotive Technician I	This course introduces students to the basic skills needed to inspect, maintain, and repair automobiles and light trucks that run on gasoline, electricity, or alternative fuels. Instructional units include engine performance, automotive electrical system, integrated computer systems, lubrication, exhaust and emission control, steering and suspension, fuel systems, cooling system, braking, and power train.
Group 3	20107A002	Diesel Mechanics I	Diesel Mechanics I courses prepare students to maintain and repair diesel engines and related systems . Specific course topics may include principles underlying diesel engines, analyzing electrical circuits and systems, troubleshooting and repairing cooling systems, testing and repairing air conditioning charging systems, reading and interpreting service manuals, and identifying the principles and components of fuel injection systems. Courses may also cover safety, employability skills, and entrepreneurship.
Group 3	20113A001	Aircraft Technician I	This course provides experiences related to the maintenance, repair, and servicing of a variety of aircraft powerplants. Planned learning activities allow students to become knowledgeable in fundamental principles of aircraft powerplant

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			construction. In addition, students develop technical skills related to avionics, aviation, and airplane power plants. Instruction includes the types, structures, and mechanics of airplanes, electronics, gauge purpose and care, engine mechanics, major component identification, construction techniques, hydraulics, evolution of aerodynamics, and comparison of similar elements in different types of air craft.
Group 3	20053A001	Aviation/Pilot I	This course introduces students to the airplane piloting and the navigation field. Instructional units include principles of flight, the flight environment, aircraft systems and performance, meteorology for pilots, interpreting weather data, and basic navigation.
Group 3	20051A001	Truck and Bus Driving	Truck and Bus Driving courses instruct students in the proper and safe handling and operation of trucks and buses. Strategies for driving in hazardous conditions, observing laws and regulations, loading cargo or passengers, documenting cargo loads, and expectations of driving careers are all typical course topics.
Group 3	20052A001	Light and Heavy Equipment Operation	Light and Heavy Equipment Operation courses enable students to safely operate the equipment used for manufacturing, mining, construction, and utility industries. Typically, courses also include light maintenance principles and techniques.
Group 4	20152A002	Warehouse Operations II	This course provides planned learning activities designed to allow students to gain knowledge and skills in PC based inventory control, parts identification, and customer service. Learning activities in this course emphasize the development of more advanced knowledge and skills than those provided in Warehouse Operations I. Skills introduced in this course include data base operations, supply logistics, supplier relations, and shop operations.
Group 4	20116A002	Auto-Body II	This course provides learning experiences designed to further enhance the students' skills in performing more advanced tasks related to automotive body and fender repair. Learning activities in this course emphasize the successful application of the final paint coat and the preparation that precedes it. Emphasis is also placed upon the identification and correction of imperfections and finish buffing of the final coat. Student learning activities include instruction in safety principles and practices, hazardous materials, types and qualities of paints, colors, and refinishing problems; glass standards and installation, special alignment techniques, customer relations, damage estimating, and insurance adjustments. Student practical activities relate to experiences in estimating collision damage costs, preparing customer bills, removing and replacing glass surfaces, selecting paints, repainting minor and major damages, repainting total car body, drying or baking painted surfaces, post -paint cleanup, and post-paint polishing.
Group 4	20104A002	Automotive Technician II	This course is a continuation of and builds on the skills and concepts introduced in Automotive Technician I. This course includes instructional units in alternative fuel systems, computerized diagnostics, new vehicle servicing, automotive heating and air conditioning, transmissions, testing and diagnostics, drive train and overall automobile performance.
Group 4	20107A003	Diesel Mechanics II	Diesel Mechanics II courses prepare students to maintain and repair diesel engines and related systems . Specific course topics may include principles underlying diesel engines, analyzing electrical circuits and systems, troubleshooting and repairing cooling systems, testing and repairing air conditioning charging systems, reading and interpreting service manuals, and identifying the principles and components of fuel injection systems. Courses may also cover safety, employability skills, and entrepreneurship.
Group 4	20119A001	Hybrid Engines	Hybrid Engines courses introduce students to the fundamentals of hybrid electric vehicles. These courses explore the hybrid power plant and may include such topics as hybrid batteries, high- and low-voltage systems, inverters, safety procedures, hybrid maintenance and diagnostics, and alternative fuels.
Group 4	20109A001	Small Vehicle Mechanics	Small Vehicle Mechanics courses equip students with the knowledge and skill to repair and maintain engines in small vehicles (e.g., motorcycles, all-terrain vehicles, snowmobiles, and mopeds). Topics include (but are not limited to) maintaining frames and suspension, wheels and brakes, and drive trains; servicing fuel, exhaust, and electrical systems; performing tune-ups; and maintaining and repairing engines. Students may also learn safety on the job, employability skills, and entrepreneurship.
Group 4	20110A003	Advanced Small Engine Repair	Advanced Small Engine Repair is a continuation of and builds on the skills and concepts introduced in Small Engine Repair and allows students to gain additional proficiency in the small engine repair. This course will provide students with advanced skill to troubleshoot, service, and repair a variety of small internal-combustion engines. Planned activities will allow students to become knowledgeable of advanced engine diagnostics and repairs, electrical systems, ignition

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			systems, drive train and chassis systems. Safety will continue to be a key component of this class. Students will also be exposed to career opportunities related to small engines.
Group 4	20113A002	Aircraft Technician II	This course provides experiences related to the maintenance, repair, and servicing of a variety of aircraft powerplants and their associated mechanical systems. Planned learning activities emphasize the development of more advanced knowledge and skill than those provided in Aircraft Technician I. Student technical skill experiences include instruction and activities in aviation construction, shop and maintenance related areas of aircraft, safety principles and practices, as well as continued development of skills associated with aircraft powerplants.
Group 4	20053A002	Aviation/Pilot II	This course is a continuation of and builds on the skills and concepts introduced in Aviation /Pilot I. This course includes instructional units in radio navigation systems, aviation physiology, flight planning and decision making, aviation history, the nature of space, rockets, and space flight, and careers in aviation and aerospace.
Group 4	20099A001	Drone Operation and Maintenance	Drone Operation and Maintenance courses introduce students to the fundamentals of flying drones. Topics covered typically include FAA rules and regulations; types and capabilities of unmanned aircraft; drone piloting; aerial photography and videography; maintenance and preflight procedures; and aeronautical decision-making.
Group 4	20055A001	Pilot Training	Pilot Training courses prepare students to become pilots by participating in flight training, ground school, and simulator instruction. Topics covered typically include preflight operations; flight maneuvering with reference to ground objects; flying at critically slow air speeds and recovering from stalls; takeoffs and landings; controlling and maneuvering an aircraft; cross country flying; night flying; and emergency operation. Other course content may include meteorology, aerodynamics, navigation, physiology, and airfield and flight environments.
Group 5	20998A002	Transportation, Distribution, and Logistics Workplace Experience	Transportation, Distribution, and Logistics Workplace Experience courses provide students with work experience in fields related to the Transportation, Distribution, and Logistics cluster. Goals must be set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses must include classroom instruction at least once per week, involving further study of the field, discussion of relevant topics that are responsive to the workplace experience and employability skill development. Workplace Experience courses must be taught by an approved WBL educator-coordinator. These courses should be aligned to a Career Development Experience that could include: Student-led Enterprises; School-based Enterprises; Immersion Supervised Agricultural Experiences; Clinical Experiences in Health Science and Technology programs; Internships; and Apprenticeship programs including Youth Apprenticeships, Pre-apprenticeships, and Registered Apprenticeships.
Group 5	20198A001	Parts and Warehousing Workplace Experience	Parts and Warehousing Workplace Experience courses provide students with work experience in fields related to distribution and logistics. Goals must be set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses must include classroom instruction at least once per week, involving further study of the field, discussion of relevant topics that are responsive to the workplace experience and employability skill development. Workplace Experience courses must be taught by an approved WBL educator-coordinator. These courses should be aligned to a Career Development Experience that could include: Student-led Enterprises; School-based Enterprises; Immersion Supervised Agricultural Experiences; Clinical Experiences in Health Science and Technology programs; Internships; and Apprenticeship programs including Youth Apprenticeships, Preapprenticeships, and Registered Apprenticeships.
Group 5	20148A001	Auto-body Technician Workplace Experience	Auto-body Technician Workplace Experience courses provide students with work experience in fields related to the maintenance of vehicles and engines Goals must be set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses must include classroom instruction at least once per week, involving further study of the field, discussion of relevant topics that are responsive to the workplace experience and employability skill development. Workplace Experience courses must be taught by an approved WBL educator-coordinator. These courses should be aligned to a Career Development Experience that could include: Student-led Enterprises; School-based Enterprises; Immersion Supervised Agricultural Experiences; Clinical Experiences in Health Science and Technology programs; Internships; and Apprenticeship programs including Youth Apprenticeships, Pre-apprenticeships, and Registered Apprenticeships.

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Group 5	20148A002	Automotive Technician Workplace Experience	Automotive Technician Workplace Experience courses provide students with work experience in fields related to the operation of vehicles. Goals must be set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses must include classroom instruction at least once per week, involving further study of the field, discussion of relevant topics that are responsive to the workplace experience and employability skill development. Workplace Experience courses must be taught by an approved WBL educator-coordinator. These courses should be aligned to a Career Development Experience that could include: Student-led Enterprises; School-based Enterprises; Immersion Supervised Agricultural Experiences; Clinical Experiences in Health Science and Technology programs; Internships; and Apprenticeship programs including Youth Apprenticeships, Preapprenticeships, and Registered Apprenticeships.
Group 5	20098A001	Aircraft Technician Workplace Experience	Aircraft Technician Workplace Experience courses provide students with work experience in fields related to the maintenance of vehicles and engines. Goals must be set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses must include classroom instruction at least once per week, involving further study of the field, discussion of relevant topics that are responsive to the workplace experience and employability skill development. Workplace Experience courses must be taught by an approved WBL educator-coordinator. These courses should be aligned to a Career Development Experience that could include: Student-led Enterprises; School-based Enterprises; Immersion Supervised Agricultural Experiences; Clinical Experiences in Health Science and Technology programs; Internships; and Apprenticeship programs including Youth Apprenticeships, Pre-apprenticeships, and Registered Apprenticeships.
Group 5	20098A002	Pilot and Flight Crew Workplace Experience	Pilot and Flight Crew Workplace Experience courses provide students with work experience in fields related to the maintenance of vehicles and engines. Goals must be set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses must include classroom instruction at least once per week, involving further study of the field, discussion of relevant topics that are responsive to the workplace experience and employability skill development. Workplace Experience courses must be taught by an approved WBL educator-coordinator. These courses should be aligned to a Career Development Experience that could include: Student-led Enterprises; School-based Enterprises; Immersion Supervised Agricultural Experiences; Clinical Experiences in Health Science and Technology programs; Internships; and Apprenticeship programs including Youth Apprenticeships, Pre-apprenticeships, and Registered Apprenticeships.
Group 5	20098A003	Truck/Bus Operation Workplace Experience	Truck/Bus Operation Workplace Experience courses provide students with work experience in fields related to the maintenance of vehicles and engines. Goals must be set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses must include classroom instruction at least once per week, involving further study of the field, discussion of relevant topics that are responsive to the workplace experience and employability skill development. Workplace Experience courses must be taught by an approved WBL educator-coordinator. These courses should be aligned to a Career Development Experience that could include: Student-led Enterprises; School-based Enterprises; Immersion Supervised Agricultural Experiences; Clinical Experiences in Health Science and Technology programs; Internships; and Apprenticeship programs including Youth Apprenticeships, Pre-apprenticeships, and Registered Apprenticeships.
Group 5	20098A004	Forklift Operation Workplace Experience	Forklift Operation Workplace Experience courses provide students with work experience in fields related to the maintenance of vehicles and engines. Goals must be set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses must include classroom instruction at least once per week, involving further study of the field, discussion of relevant topics that are responsive to the workplace experience and employability skill development. Workplace Experience courses must be taught by an approved WBL educator-coordinator. These courses should be aligned to a Career Development Experience that could include: Student-led Enterprises; School-based Enterprises; Immersion Supervised Agricultural Experiences; Clinical Experiences in Health Science and Technology programs; Internships; and Apprenticeship programs including Youth Apprenticeships, Pre-apprenticeships, and Registered Apprenticeships.