


Transportation, Distribution, and Logistics - Automotive Technology - Perkins V Statewide Program of Study

This Career Cluster Plan of Study (based on the Transportation, Distribution, and Logistics Cluster) can serve as a guide, along with other career planning materials, as learners continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. *This Plan of Study, used for learners at an educational institution, should be customized with course titles and appropriate high school graduation requirements as well as college entrance requirements.

MIDDLE SCHOOL CTE					Expanding Student					
Opportunity & Awareness through Career & Technical Education at the Middle School Level										
MIDDLE SCHOOL	Experience	These standards may be taught simultaneously	Safety Obtain the safety training needed to be able to safely accomplish the standards and objectives Career Experience Participate in applied learning and hands-on activities where students can explore career-related skills & interests Career Workplace Skill exposure to common workplace interpersonal skills (soft skills)	Discovery	These standards may be taught simultaneously	Career Awareness Explore the wide variety of career opportunities and skills they require	Career Pathway Understand how school, school programs and education plans lead to specific careers	Sample Occupations		
		High School Core Academic State Graduation Requirements Students may demonstrate achievement of the standards through multiple pathways	State Education Requirements			Local Graduation Requirements		Secondary Career and Technical Education - Culinary Arts	Secondary CTE Completion	
		SECONDARY	English - 4 years or the equivalent in standards achievement			Maine Guiding Principles A Clear & Effective Communicator A Self-Directed & Lifelong Learner A Creative & Practical Problem Solver A Responsible & Involved Citizens An Integrated & Informed Thinker		All Programs of Study must also meet local high school graduation requirements. Certain local student organization activities are also important including public speaking, record keeping and work-based experiences.	Automotive Technology 2 year program The Automotive Technology programs prepare students for careers in the automotive fields. Industry Recognized Credentials: ASE - Maintenance and Light Repair Standards: National Automobile Technicians Education Foundation (Maine License Inspection Technician is recommended)	Automotive Mechanic Equipment Installation Automotive Technician Inspection Technician
Social studies and history, including American history, government, civics and personal finance - 2 years or the equivalent in standards achievement		Maine Learning Results								
Mathematics - 2 years or the equivalent in standards achievement		Career & Ed. Dev. English Language Arts Health & Physical Ed. Mathematics Science & Technology Social Studies Visual & Performing Arts World Languages								
Science, including at least one year of laboratory study - 2 years or the equivalent in standards achievement										
Fine arts - art, music, forensics or drama - 1 year or the equivalent in standards achievement										
Instruction in health, safety, physical education, physiology and hygiene										
Articulation/Dual/Concurrent Credit -Postsecondary courses may be completed at the secondary level for articulation/dual credit purposes.										
POSTSECONDARY	Higher Education Institution		Articulated Credit (3 credits unless noted)		College Enrollment Requirements		Postsecondary-sample training objectives		Postsecondary Training or Degree Completion	
	Years 13 and 14	Central Maine Community College		AUT100- Intro to Automotive Technology (1 cr) AUT150 - Electrical System I		Secondary articulated credits do not guarantee college acceptance. Students must meet all local college enrollment requirements in order to be accepted into a postsecondary program.		A program that prepares individuals to apply technical knowledge and skills to repair, service, and maintain all types of automobiles. Includes instruction in brake systems, electrical systems, engine performance, engine repair, suspension and steering, automatic and manual transmissions and drive trains, and heating and air condition systems.		Automotive Technician Service Technician Alignment Technician General Service Technician Automotive Mechanic ASE Master Mechanic ASE Master Technician
		Eastern Maine Community College		ATA110 - Automotive Basic Electrical Systems						
		Northern Maine Community College		AUT109 - Intro to Automotive (1cr) AUT115 Automotive Electricity						
		Southern Maine Community College		AUTO101 - Intro to Automotive (1cr) AUTO155 - Electricity and Electronics I (4cr)						
		Washington County Technical College		MET114 - Vehicular Electrical Systems I (1cr) MET103 - Principles of Vehicular Electronics (2cr)						
	Other	Automotive Engineering								
DocuSigned by:			Date			Date			Date	
Dwight A Littlefield			10/1/2020			Janet M. Anton			9.30-20	
State Director for CTE, Maine Department of Education			Date			Vice President/Chief Academic Officer, Maine Community College System			Date	

Architecture & Construction-Electrical - Perkins V Statewide Program of Study

This Career Cluster Plan of Study (based on the Architecture & Construction Career Cluster) can serve as a guide, along with other career planning materials, as learners continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. *This Plan of Study, used for learners at an educational institution, should be customized with course titles and appropriate high school graduation requirements as well as college entrance requirements.

MIDDLE SCHOOL CTE					Expanding Student		
Opportunity & Awareness through Career & Technical Education at the Middle School Level							
MIDDLE SCHOOL	Experience	These standards may be taught simultaneously	Safety Obtain the safety training needed to be able to safely accomplish the standards and objectives	Discovery	These standards may be taught simultaneously	Career Awareness Explore the wide variety of career opportunities and skills they require	
			Career Experience Participate in applied learning and hands-on activities where students can explore career-related skills & interests			Career Pathway Understand how school, school programs and education plans lead to specific careers	
			Career Workplace Skill exposure to common workplace interpersonal skills (soft skills)				
		High School Core Academic State Graduation Requirements Students may demonstrate achievement of the standards through multiple pathways		State Education Requirements	Local Graduation Requirements	Secondary Career and Technical Education - Culinary Arts	Sample Occupations Secondary CTE Completion
SECONDARY	English - 4 years or the equivalent in standards achievement		Maine Guiding Principles A Clear & Effective Communicator A Self-Directed & Lifelong Learner A Creative & Practical Problem Solver A Responsible & Involved Citizens An Integrated & Informed Thinker		All Programs of Study must also meet local high school graduation requirements. Certain local student organization activities are also important including public speaking, record keeping and work-based experiences.	Electrical Trades 2 year program The Electrical Trades programs prepare students for careers in the electrical fields. Industry Recognized Credentials: NCCER NAHB HBI - House wiring basic or advanced Standards: National Center for Construction Education & Research CORE AND Core Electrical OR National Association of Home Builders AND NFPA Electrical Code	Electricians Assistant Construction Worker Inside Wireman Assistant
	Social studies and history, including American history, government, civics and personal finance - 2 years or the equivalent in standards achievement						
	Mathematics - 2 years or the equivalent in standards achievement						
	Science, including at least one year of laboratory study - 2 years or the equivalent in standards achievement						
	Fine arts - art, music, forensics or drama - 1 year or the equivalent in standards achievement						
	Instruction in health, safety, physical education, physiology and hygiene						
Articulation/Dual/Concurrent Credit -Postsecondary courses may be completed at the secondary level for articulation/dual credit purposes.							
		Higher Education Institution	Articulated Credit (3 credits)	College Enrollment Requirements	Postsecondary -sample training objectives	Postsecondary Training or Degree Completion	
POSTSECONDARY	Years 13 and 14	Central Maine Community College	ELT123 - Electrical Controls I	Secondary articulated credits do not guarantee college acceptance. Students must meet all local college enrollment requirements in order to be accepted into a postsecondary program.	Residential Wiring Electrical Code Electricity and Industrial Controls	Electrical/Electronic Technicians Electricians Assistants Lineworker Fluid Power Systems Inspector Inside Wireman Industrial Election	
		Eastern Maine Community College	ELC151 - Electrical Controls I				
		Kennebec Valley Community College	ETL121 - Electrical Wiring Practices I (5 Credits)				
		Northern Maine Community College	ELE112 - Basic Residential Wiring				
		Southern Maine Community College	ELEC175 - Wiring Practices				
		Washington County Community College	REY 131 - Residential & Commercial Electricity (2)				
	Other	University of Maine Electrical and Engineering Programs					
DocuSigned by:							
Dwight A Littlefield		10/1/2020			9.30.20		
State Director for CTE, Maine Department of Education		Date		Vice President/Chief Academic Officer, Maine Community College System		Date	