



Delaware Department of Education
Appendix: Labor Market Information (LMI) Review
 Delaware CTE Program of Study Application

Table 1: LEA Information

(see instructions on page 2, LMI Instructions & Guidance Document)

Career Cluster:	Transportation, Distribution & Logistics
Career Pathway:	Facility and Mobile Equipment Maintenance
CTE Program of Study:	Automotive Technician
High School and LEA Name:	
County:	

Table 2: Labor Market Information (LMI) Benchmarks by Geographic Region

(see instructions on page 2, LMI Instructions & Guidance Document)

Region	Employment 2015	Employment Change 2014-24	Employment Growth 2014-24	Avg. Wage 2015
United States	739,900	39,100	5.3%	\$39,963
Delaware	2,070	90	4.4%	\$38,580
District of Columbia	450	-10	-1.1%	\$59,250
Maryland	13,320	1,200	9.0%	\$46,190
New Jersey	18,510	1,040	5.6%	\$44,980
Pennsylvania	38,370	1,280	3.4%	\$35,870
Virginia	22,140	1,740	7.9%	\$42,110

Table 3: LMI by Career Cluster & Pathway

(see instructions on page 4, LMI Instructions & Guidance Document)

Cluster Code	Cluster/Pathway Title	Middle Skill	High Skill	High Wage	High Demand	2014-2024			
						Employment 2015	Employment Change 2014-2024	Employment Growth 2014-2024	Average Wage 2015
<i>(Cluster #)</i>	Transportation, Distribution & Logistics	•			•	26,694	2,527	8.2%	\$38,806
	Rank Select Career Cluster by the Following Categories ->					(5 of 16)	(7 of 16)	(9 of 16)	(14 of 16)
<i>(Pathway #)</i>	Facility and Mobile Equipment Maintenance	•		•	•	5,619	307	6.1%	\$40,806
	Rank Select Career Pathway by the Following Categories ->					(3 of 5)	(3 of 5)	(4 of 5)	(3 of 5)
	Facility and Mobile Equipment Maintenance – Mid-Atlantic States	•		•	•	233,700	19,870	8.1%	\$40,284
	Facility and Mobile Equipment Maintenance –United States	•		•	•	2,034,660	144,800	6.8%	\$39,963
16.01	Transportation Operations	•			•	17,670	1,866	8.6%	\$36,756
16.02	Logistics Planning and Management Services	•		•	•	970	51	5.0%	\$69,871
16.05	Transportation Systems/Infrastructure Planning, Management and Regulation	•				28			
16.07	Sales and Service	•			•	2,407	303	10.1%	\$35,949

Table 3: LMI by Career Cluster & Pathway (Questions/Analysis)

(see instructions on page 5, LMI Instructions & Guidance Document)

1. How does the employment, the employment change, the employment growth rate, and the average wage for the identified career cluster compare to LMI for other clusters in the State of Delaware? Is the career cluster rated as high wage and high demand?

The Transportation, Distribution & Logistics Career Cluster ranks 5th in overall employment, 7th for employment change, 9th for employment growth and 14th for average wage. The career cluster rating is high demand and middle skill.

2. How does the employment, the employment change, the employment growth rate, and the average wage for the identified career pathway compare to LMI at the cluster level? How does the identified pathway level LMI in Delaware compare to the pathway level LMI in the Mid-Atlantic and/or the United States? How does the identified pathway level LMI in Delaware compare to the other pathway level LMI in Delaware?

Pathway employment growth is slightly lower than the cluster level, but the average wage is higher. Delaware's growth is slightly lower than the Mid-Atlantic rate of 8.1% and the United States rate of 6.8%. Related pathways in Delaware have a higher employment growth rate but lower average wage.

Table 4: LMI by Standard Occupation Code (SOC)

(see instructions on page 6, LMI Instructions & Guidance Document)

SOC Code	Occupation Title	Middle Skill	High Skill	High Wage	High Demand	2014-2024			
						Employment 2015	Employment Change 2014-2024	Employment Growth 2014-2024	Average Wage 2015
49-2094-.00	Electrical and Electronics Repairers, Commercial and Industrial Equipment	•				270	2620	-10	\$37,960
49-3031.00	Bus and Truck Mechanics and Diesel Engine Specialist	•				530	580	50	\$37,960
49-3041.00	Farm Equipment Mechanics and Service Technicians	•				170	190	20	\$37,960
40-9041.00	Mobile Heavy Equipment Mechanics	•				370	390	20	\$37,960
40-9041.00	Industrial Machinery Mechanics	•				880	1020	140	\$37,960
53-6051.07	Transportation Vehicle, Equipment and Systems Inspectors, Except Aviation					270	290	20	\$37,960

Table 4: LMI by Standard Occupation Code (SOC) (Questions/Analysis)

(see instructions on page 7, LMI Instructions & Guidance Document)

3. How closely related to the program of study are the identified occupations (SOCs)?

The Automotive Technician Program of Study focuses on the mathematical, scientific and mechanical principles and methods required to perform the maintenance, repair and servicing of vehicles. The SOCs listed in Table 4 are directly related to the program of study.

4. Are there adequate state-level projected job openings or employment growth projections at the occupation level to justify starting a new program of study? Do the occupations related to the program of study rank as high skill, high wage and/or high demand?

Yes there are enough job openings to warrant this new program of study. Since this program was designed as a pre-apprenticeship program for the new Delaware Department of Labor Automotive Technician Tech C Registered Apprenticeship, it is aligned to help address current labor market demands.

Table 5: LMI Supply Indicators by Secondary & Post-Secondary Levels (see instructions on page 8, LMI Instructions & Guidance Document)			Program Completion/Enrollment	
Program Code (CIP)	Program (CIP) Title	School	2013-14	2014-15
Total Secondary Programs of Study				
16.04402	Automotive Technician - Tech	Delcastle High School		
16.04402	Automotive Technician - Tech	Hodgson High School		
16.04403	Diesel Mechanics Technology	Howard High School		
16.04402	Automotive Technician - Tech	St. Georges High School		
16.04402	Automotive Technician - Tech	Polytech High School		
16.04402	Automotive Technician - Tech	Sussex Tech High School		
16.04401	Core Automotive	Dickinson High School		
16.04401	Core Automotive	McKean High School		
Total Post-Secondary Programs of Study				
(CIP #)	Delaware Technical Community College	Stanton and Owens Campuses		34
(CIP #)	DOL Apprenticeship	County Adult Education Centers		

Table 5: LMI Supply Indicators by Secondary & Post-Secondary Levels (Questions/Analysis)

(see instructions on page 9, LMI Instructions & Guidance Document)

5. How is the secondary program of study articulated to or in any way related to the identified post-secondary program(s)?

The automotive technology program of study is a pre-apprenticeship program for the Delaware Department of Labor Automotive Technician Tech C Apprenticeship Program. Previous articulation agreements with Delaware Technical Community College and University of Northwestern Ohio are in the process of being updated to align with the new automotive program of study.

6. How does the annual completion data at the secondary and post-secondary level compare to the projected career pathway-related projected job openings in Table 4?

Industry representatives have indicated an urgent need for automotive technicians. The supply generated from the secondary and postsecondary programs is not adequate to meet the labor market demand.

Table 6: Other LMI Data Including Real-Time LMI (Questions/Analysis)

(see instructions on page 10, LMI Instructions & Guidance Document)

7. Are there additional LMI data (demand & supply) at the local, county, state, or Mid-Atlantic region that support starting a new program of study in this pathway? This includes additional occupations for which there is not an SOC, any other analysis of LMI data, and any additional information on demand & supply factors that influence employment which can include real-time labor market information.

Business and industry representatives were actively involved in the development of the new Delaware Department of Labor Automotive Technician Tech C Registered Apprenticeship. They were also involved in the development of this secondary level pre-apprenticeship program. They are pleased that Delaware has created a seamless path to move interested students through the pipeline.