



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:	Health Sciences
Career Pathway:	Therapeutic Services
CTE Program of Study:	Nurse Assisting
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 2014	Employment Change 2012-22	Employment Growth 2012-22	Avg. Wage 2014
United States	135,128,260	15,628,000	10.8%	\$47,230
Delaware	424,330	40,900	9.4%	\$49,520
District of Columbia	674,650	57,930	7.7%	\$78,580
Maryland	2,557,510	189,370	6.1%	\$53,470
New Jersey	3,869,260	313,190	7.5%	\$53,920
Pennsylvania	5,653,840	467,940	7.7%	\$45,750
Virginia	3,648,490	534,210	13.5%	\$50,750

Table 3: LMI by Career Cluster & Pathway

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

					2012-2022			
Cluster Code	Cluster/Pathway Title	High Skill	High Wage	High Demand	Employment 2014	Employment Change 2012-2022	Employment Growth 2012-2022	Average Wage 2014
8	Health Sciences Career Cluster	•	•	•	44,851	7255	16.6%	\$63,320
	Rank Select Career Cluster by the Following Categories ->				(4 of 16)	(1 of 16)	(2 of 16)	(5 of 16)
8.01	Therapeutic Services Pathway	•	•	•	35,163	5516	16.4%	\$68,094
	Rank Select Career Pathway by the Following Categories ->				(1 of 5)	(1 of 5)	(3 of 5)	(1 of 5)
	Therapeutic Services Pathway – Mid-Atlantic States	•	•	•	1,261,250	226,266	17%	\$64,224
	Therapeutic Services Pathway – United States	•	•	•	9,850,830	2,459,400	24.2%	\$63,495
8.02	Diagnostic Services	•	•	•	2,797	523	19.2%	\$55,596
8.03	Health Informatics			•	4,981	1,038	20.5%	\$33,933
8.04	Support Services	•		•	1,910	245	14.1%	\$63,389
8.05	Biotechnology Research and Development					67	13.7%	

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 Health Sciences Career Clusters ranks in the top five (5) for employment, employment change, employment growth rate and average wage when compared to other clusters and is ranked first for employment change compared to all other clusters. The career cluster rating is high skill, high wage and high demand.

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?

The employment growth for the cluster and pathway are significantly higher than Delaware on average and this trend is mirrored when reviewing LMI for the Mid-Atlantic region and nationally. The average wage for the pathway is nearly \$5,000 higher for the therapeutic services pathway than for the career cluster. Regionally and across the country there is high LMI for careers in the Therapeutic Services pathway. There is also the potential for students who complete the Nurse Assisting program of study to enroll in nursing degree programs or seek employment other SOC's in the Therapeutics Services or Diagnostic Services Pathways. The therapeutic services pathway has the highest employment, employment change, and average wage of all pathways in the cluster.

Table 4: LMI by Standard Occupation Code (SOC)
(see instructions on page 6, LMI Instructions & Guidance Document)

SOC Code	Occupation Title	High Skill	High Wage	High Demand	2012-2022			
					Employment 2014	Employment Change 2012-2022	Employment Growth 2012-2022	Average Wage 2014
29-2021	Dental Hygienist	•	•	•	719	86	13.8%	\$70,660
29-1126	Respiratory Therapist	•	•	•	361	73	17.9%	\$64,860
29-1141	Registered Nurse	•	•	•	10,428	1,586	15.7%	\$70,160
31.1014	Nurse Assistant	•		•	1921	238	13.0%	\$32,010
29-2055	Surgical Technologist	•	•	•	280	354	26.4%	\$42,990
29-2034	Radiologic Technologist	•	•	•	626	72	14.8%	\$58,890
29-2032	Diagnostic Medical Sonographer	•	•	•	168	46	37.4%	\$69,890

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)?

Respiratory therapy, medical assisting, physical therapy, and surgical technology are all closely related to the nurse assisting program of study and have strong connections to post-secondary programs in the state. Nurse Assisting students will be required to complete algebra

and general chemistry (with a grade of C or better) and will earn college credit through articulated credits to enter related degree programs in this career field.

- 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?

The number of job openings projected for the cluster and pathway as well as the related SOCs will support a Nurse Assisting program of study. All related SOCs and the cluster and pathway are rated as high skill, high wage, and high demand jobs.

Table 5: LMI Supply Indicators by Secondary & Post-Secondary Levels

(see instructions on page 8, LMI Instructions & Guidance Document)

Program Code (CIP)	Program (CIP) Title	School	Program Completion/Enrollment			
			2010-11	2011-12	2012-13	2013-14
Total Secondary Programs of Study						
31-1014	Nurse Assisting	Howard, Delcastle, Hodgson, St. Georges, Polytech, Sussex Tech, Conrad, Dover, Woodbridge, Indian River	1086	1110	995	1065
31.1014	Medical Assisting	Delcastle, Howard, St. Georges, Polytech, Sussex Central, Cape Henlopen	605	590	405	375
Total Post-Secondary Programs of Study						
29-1141	Registered Nursing	DTCC, Beebe, DSU, UD, Wesley	535	577	583	564
31-9092	Medical Assisting	Dawn, Harris, DTCC	559	779	608	608

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

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

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

The Nurse Assisting Program of Study connects to several post-secondary degree programs at both two- and four- year institutions of higher education. Specifically, the Nurse Assisting program of study will prepare students for nursing programs or any of the related areas of study

in respiratory services, imaging services, physical rehabilitation, medical office services, dental sciences, medical laboratory services, and emergency medical services.

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?

As illustrated by the number of enrolled students, there is a high interest in Health Science programs at the post-secondary level. Therefore, a Nurse Assisting Program at the secondary level will better prepare students with Health Science skills and knowledge to enter post-secondary programs. This work will lead to students achieving advanced standing while in high school and lessening the amount of time required to enter the healthcare workforce.

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.

Real-Time LMI Report will be published in the summer of 2017, prior to program start-up.