










# Licensed Practical and Licensed Vocational Nurses

## Labor Market Analysis: Imperial County

May 2021

### Summary

NEW PROGRAM RECOMMENDATION?	EVIDENCE OF A SUPPLY GAP?	AT OR ABOVE THE LIVING WAGE?	EXPECTED LEVEL OF EDUCATION
 <p><b>Proceed with New Program</b></p>	 	 	<input type="checkbox"/> Bachelor's Degree <input type="checkbox"/> Associate Degree <input checked="" type="checkbox"/> Some College or Certificate
<p>SUPPORT FOR PROGRAM MODIFICATION?</p>  	<p>NUMBER OF INSTITUTIONS THAT PROVIDE TRAINING</p> <p><b>MEDIUM</b></p> 	<p>NUMBER OF ANNUAL JOB OPENINGS</p> <p><b>HIGH</b></p> 	<input type="checkbox"/> HS Diploma or Equivalent <input type="checkbox"/> Less than a HS Diploma <input type="checkbox"/> Apprenticeship

The San Diego-Imperial Center of Excellence for Labor Market Research (COE) developed this brief to assist the region's community colleges with strategic planning and program development. According to available labor market information, *Licensed Practical and Licensed Vocational Nurses* in Imperial County has a labor market demand of 37 annual job openings (while average demand for a single occupation in Imperial County is 14 annual job openings), and one educational institution in Imperial County supplies eight awards for this occupation, suggesting that there is a supply gap in the labor market. Entry-level wages and median wages for this occupation are above the living wage. This brief recommends proceeding with developing a new program or a program modification because 1) there is a high number of annual job openings; 2) there is a supply gap in the region; and 3) entry-level and median wages are above the living wage.

## Introduction

This report provides labor market information in Imperial County for the following occupational code in the Standard Occupational Classification (SOC)<sup>1</sup> system:

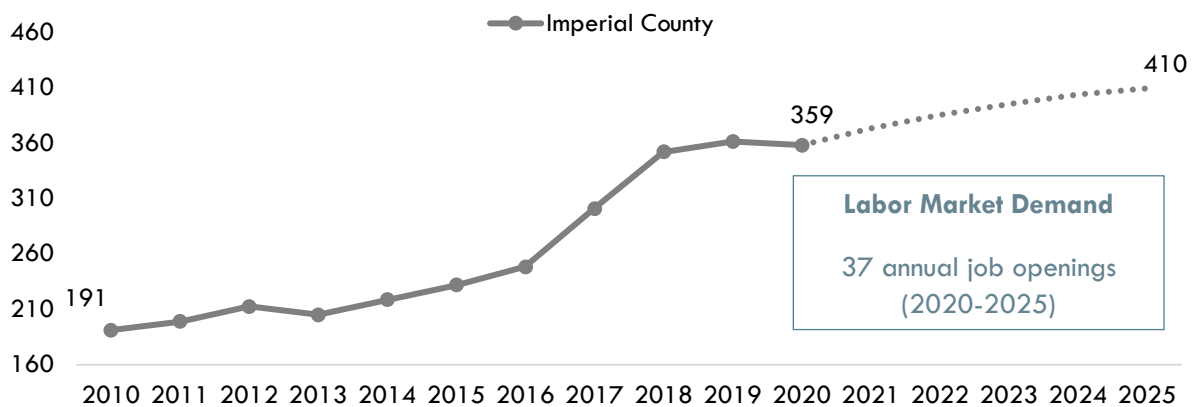
**Licensed Practical and Licensed Vocational Nurses (SOC 29-2061):** Care for ill, injured, or convalescing patients or persons with disabilities in hospitals, nursing homes, clinics, private homes, group homes, and similar institutions. May work under the supervision of a registered nurse. Licensing required. Sample reported job titles include:

- Charge Nurse
- Clinic Licensed Practical Nurse
- Clinic Nurse
- Licensed Practical Nurse, Clinic Nurse
- Office Nurse
- Pediatric Licensed Practical Nurse
- Private Duty Nurse
- Triage Licensed Practical Nurse

## Projected Occupational Demand

Between 2020 and 2025, *Licensed Practical and Licensed Vocational Nurses* are projected to increase by 51 net jobs or 14 percent (Exhibit 1). Employers in Imperial County will need to hire 37 workers annually to fill new jobs and backfill jobs due to attrition caused by turnover and retirement, for example.

**Exhibit 1: Number of Jobs for *Licensed Practical and Licensed Vocational Nurses* (2010-2025)<sup>2</sup>**



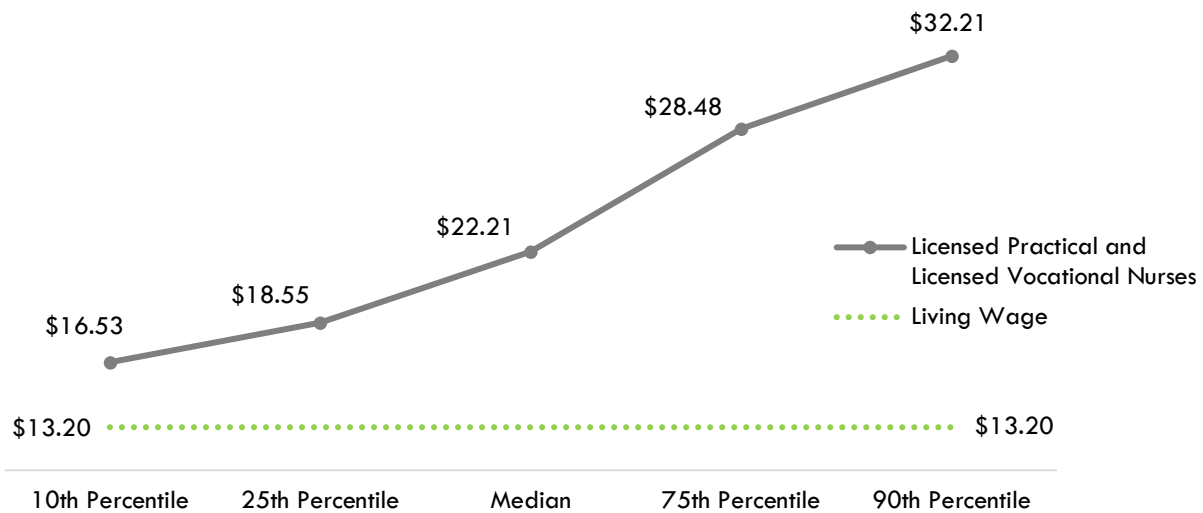
<sup>1</sup> The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories for the purpose of collecting, calculating or disseminating data. [bls.gov/soc](https://www.bls.gov/soc/).

<sup>2</sup> EMSI 2021.1; QCEW, Non-QCEW, Self-Employed.

## Earnings

Licensed Practical and Licensed Vocational Nurses receive entry-level hourly earnings of \$18.55; this is more than the living wage for a household of two adults and two school-age children in Imperial County, which is \$13.20 per hour (Exhibit 2).<sup>3</sup>

**Exhibit 2: Hourly Earnings<sup>4</sup> for Licensed Practical and Licensed Vocational Nurses in Imperial County<sup>5</sup>**



<sup>3</sup> "California Family Needs Calculator (formerly the Self-Sufficiency Standard)," Insight: Center for Community Economic Development, last updated 2018. [insightccd.org/2018-self-sufficiency-standard](https://insightccd.org/2018-self-sufficiency-standard).

<sup>4</sup> 10th and 25th percentiles could be considered entry-level wages, and 75th and 90th percentiles could be considered experienced wages for individuals who may have been in the occupation longer, received more training than others, etc.

<sup>5</sup> EMSI 2021.1; QCEW, Non-QCEW, Self-Employed.

## Educational Supply

Educational supply for an occupation can be estimated by analyzing the number of awards in related Taxonomy of Programs (TOP) or Classification of Instructional Programs (CIP) codes.<sup>6</sup> There is **one** TOP code and **two** CIP codes related to *Licensed Practical and Licensed Vocational Nurses* (Exhibit 3).

**Exhibit 3: Related TOP and CIP Codes for Licensed Practical and Licensed Vocational Nurses**

TOP or CIP Code	TOP or CIP Program Title
TOP 1230.20	Licensed Vocational Nursing
CIP 51.3901	Licensed Practical/Vocational Nurse Training
CIP 51.3999	Practical Nursing, Vocational Nursing and Nursing Assistants, Other

According to TOP data, **one** community college supplies the region with awards for this occupation: **Imperial Valley College**. According to CIP data, **no** non-community-college institution supplies the region with awards (Exhibit 4).

**Exhibit 4: Number of Awards (Certificates and Degrees) Conferred by Postsecondary Institutions (Program Year 2016-17 through PY2019-20 Average)**

TOP or CIP Code	TOP or CIP Program Title	3-Yr Annual Average CC Awards (PY17-18 to PY19-20)	Other Educational Institutions 3-Yr Annual Average Awards (PY16-17 to PY18-19)	3-Yr Total Average Supply (PY16-17 to PY19-20)
1230.20	Licensed Vocational Nursing	<b>8</b>	<b>0</b>	<b>8</b>
	<ul style="list-style-type: none"> <li>Imperial Valley</li> </ul>	8	0	
			<b>Total</b>	<b>8</b>

<sup>6</sup> TOP data comes from the California Community Colleges Chancellor's Office MIS Data Mart ([datamart.cccco.edu](http://datamart.cccco.edu)) and CIP data comes from the Integrated Postsecondary Education Data System ([nces.ed.gov/ipeds/use-the-data](http://nces.ed.gov/ipeds/use-the-data)).

## Demand vs. Supply

Comparing labor demand (annual openings) with labor supply<sup>7</sup> suggests that there is a **supply gap** for this occupation in Imperial County, with **37** annual openings and **eight** awards. Comparatively, there are **6,748** annual openings in California and **5,480** awards, suggesting that there is also a supply gap across the state<sup>8</sup> (Exhibit 5).

### Exhibit 5: Labor Demand (Annual Openings) Compared with Labor Supply (Average Annual Awards)

Community Colleges and Other Postsecondary Educational Institutions	Demand (Annual Openings)	Supply (Total Annual Average Supply)	Supply Gap or Oversupply
Imperial	37	8	29
California	6,748	5,480	1,268

**Please note:** This is a basic analysis of supply and demand of labor. The data does not include workers currently in the labor force who could fill these positions or workers who are not captured by publicly available data. This data should be used to discuss the potential gaps or oversupply of workers; however, it should not be the only basis for determining whether or not a program should be developed.

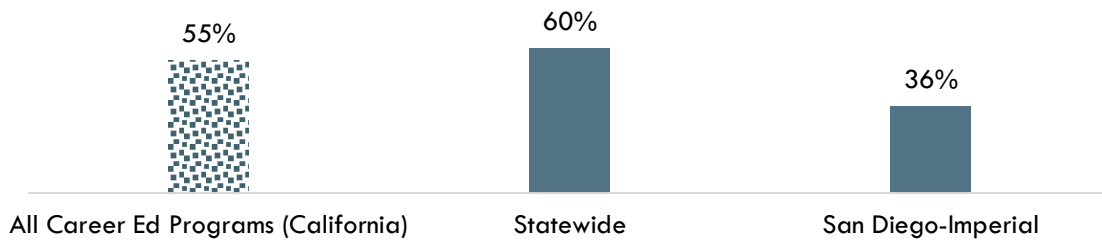
<sup>7</sup> Labor supply can be found from two different sources: EMSI or the California Community Colleges Chancellor's Office MIS Data Mart. EMSI uses CIP codes while MIS uses TOP codes. Different coding systems result in differences in the supply numbers.

<sup>8</sup> "Supply and Demand," Centers of Excellence Student Outcomes, [coecc.net/Supply-and-Demand.aspx](http://coecc.net/Supply-and-Demand.aspx).

## Student Outcomes and Regional Comparisons

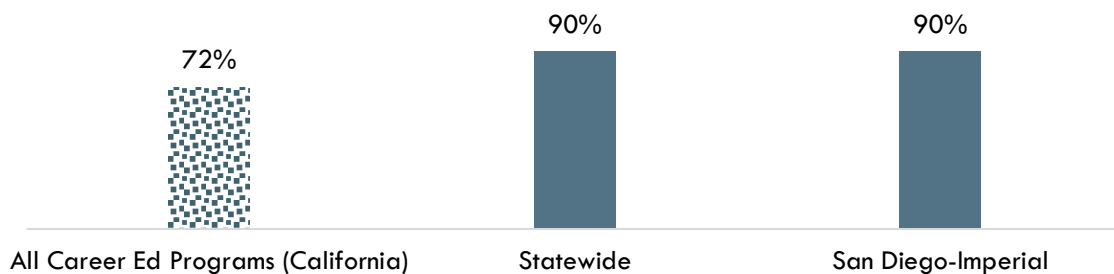
According to the California Community Colleges LaunchBoard, 36 percent of students in the San Diego-Imperial region earned a living wage after completing a Licensed Vocational Nursing (TOP 1230.20) program, compared to 60 percent statewide and 55 percent of students in Career Education programs in general across the state (Exhibit 6a).

**Exhibit 6a: Percentage of Students Who Earned a Living Wage by Program  
(Licensed Vocational Nursing, PY2017-18)<sup>9</sup>**



According to the California Community Colleges LaunchBoard, 90 percent of students in the San Diego-Imperial region obtained a job closely related to their field of study after completing a Licensed Vocational Nursing (TOP 1230.20) program, compared to 90 percent statewide and 72 percent of students in Career Education programs in general across the state (Exhibit 6b).<sup>10</sup>

**Exhibit 6b: Percentage of Students in a Job Closely Related to Field of Study by Program  
(Licensed Vocational Nursing, PY2016-17)<sup>11</sup>**



<sup>9</sup> Among completers and skills builders who exited, the percentage of students who attained a living wage.

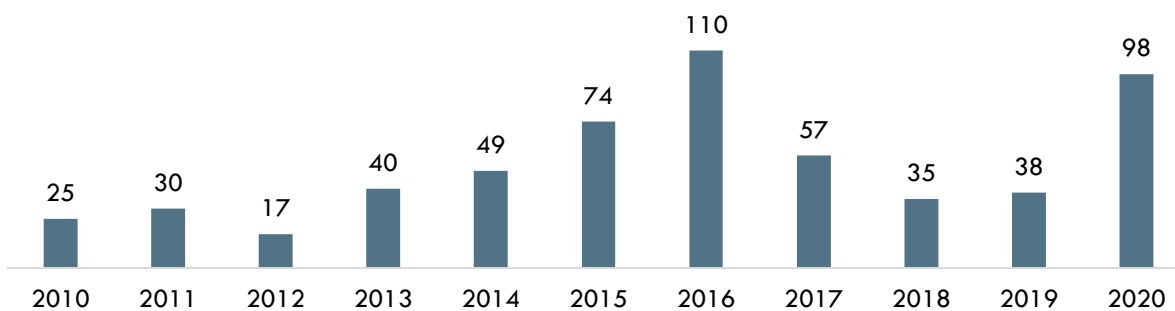
<sup>10</sup> "California Community Colleges Strong Workforce Program," California Community Colleges, [calpassplus.org/LaunchBoard/SWP.aspx](http://calpassplus.org/LaunchBoard/SWP.aspx).

<sup>11</sup> Most recent year with available data is Program Year 2016-17. Percentage of Students in a Job Closely Related to Field of Study: Among students who responded to the CTEOS, the percentage reporting employment in the same or similar field as their program of study.

## Online Job Postings

This report analyzes not only historical and projected (traditional LMI) data, but also recent data from online job postings (real-time LMI). Online job postings may provide additional insight about recent changes in the labor market that are not captured by historical data. Between 2010 and 2020, there was an average of 52 online job postings per year for *Licensed Practical and Licensed Vocational Nurses* in Imperial County (Exhibit 7). Please note that online job postings do **not** equal labor market demand; demand is represented by annual job openings (see Exhibit 1). Employers may post a position multiple times for various reasons, such as increasing the pool of applicants, for example.

**Exhibit 7: Number of Online Job Postings for *Licensed Practical and Licensed Vocational Nurses* in Imperial County (2010-2020)<sup>12</sup>**



## Top Employers

Between January 1, 2018 and December 31, 2020, the top five employers in Imperial County for this occupation were *AccentCare*, *Volunteers of America*, *Wellpath*, *Management & Training Corporation*, and *Pioneers Memorial Healthcare District* based on online job postings (Exhibit 8).

**Exhibit 8: Top Employers in Imperial County for *Licensed Practical and Licensed Vocational Nurses*<sup>13</sup>**

Top Employers	
<ul style="list-style-type: none"> <li>• AccentCare</li> <li>• Volunteers of America</li> <li>• Wellpath</li> <li>• Management &amp; Training Corporation</li> <li>• Pioneers Memorial Healthcare District</li> </ul>	<ul style="list-style-type: none"> <li>• The GEO Group, Inc.</li> <li>• Centurion</li> <li>• Imperial County Office of Education</li> <li>• Ventura County Medical Center</li> <li>• Companion Management Group</li> </ul>

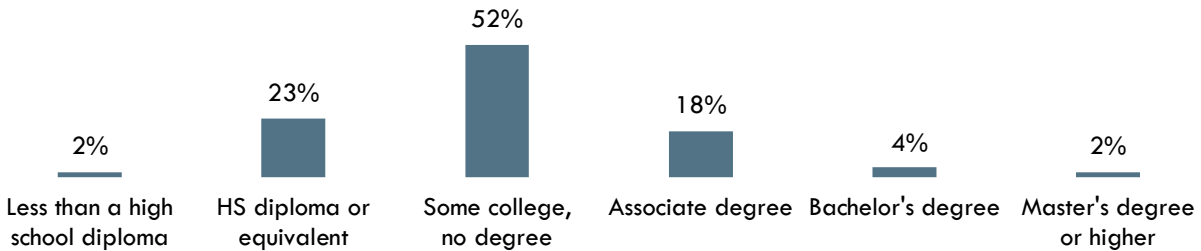
<sup>12</sup> Burning Glass Technologies, "Labor Insight Real-Time Labor Market Information Tool." 2010-2020.

<sup>13</sup> Burning Glass Technologies, "Labor Insight Real-Time Labor Market Information Tool." 2018-2020.

## Education, Skills, and Certifications

Exhibit 9 indicates the educational attainment for the occupation found currently in the national labor force. The typical entry-level education is a [postsecondary non-degree award](#).<sup>14</sup>

**Exhibit 9: National Educational Attainment of Licensed Practical and Licensed Vocational Nurses<sup>15</sup>**



\*May not add up to 100% due to rounding

Exhibit 10 lists the top specialized, soft, and software skills that appeared in online job postings between January 1, 2018 and December 31, 2020.

**Exhibit 10: Top Skills for Licensed Practical and Licensed Vocational Nurses in Imperial County<sup>16</sup>**

Specialized Skills	Soft Skills	Software Skills
<ul style="list-style-type: none"> <li>• Cardiopulmonary Resuscitation</li> <li>• Patient Care</li> <li>• Treatment Planning</li> <li>• Home Health</li> <li>• Medical Records Accuracy</li> <li>• Rehabilitation</li> <li>• Medical Records Maintenance</li> <li>• Clinical Experience</li> <li>• Health Education</li> <li>• Patient Follow-up</li> <li>• Long-Term Care</li> <li>• Medical Records Completion</li> <li>• Vital Signs Measurement</li> <li>• Specimen Collection</li> <li>• Care Planning</li> </ul>	<ul style="list-style-type: none"> <li>• English</li> <li>• Spanish</li> <li>• Bilingual</li> <li>• Teamwork / Collaboration</li> <li>• Research</li> <li>• Organizational Skills</li> <li>• Work Area Maintenance</li> <li>• Written Communication</li> <li>• Communication Skills</li> <li>• Detail-Oriented</li> <li>• Multi-Tasking</li> <li>• Planning</li> <li>• Physical Abilities</li> <li>• Problem Solving</li> <li>• Writing</li> </ul>	<ul style="list-style-type: none"> <li>• Microsoft Office</li> <li>• Microsoft Exchange</li> <li>• Microsoft Outlook</li> <li>• Facebook</li> </ul>

<sup>14</sup> EMSI 2021.1; QCEW, Non-QCEW, Self-Employed.

<sup>15</sup> "Educational Attainment for Workers 25 Years and Older by Detailed Occupation," Bureau of Labor Statistics, last modified September 4, 2019. [bls.gov/emp/tables/educational-attainment.htm](https://bls.gov/emp/tables/educational-attainment.htm).

<sup>16</sup> Burning Glass Technologies, "Labor Insight Real-Time Labor Market Information Tool." 2018-2020.



Exhibit 11 lists the top certifications that appeared in online job postings between January 1, 2018 and December 31, 2020.

**Exhibit 11: Top Certifications for *Licensed Practical and Licensed Vocational Nurses* in Imperial County<sup>17</sup>**

Top Certifications in Online Job Postings

1. Licensed Vocational Nurse (LVN)
2. Licensed Practical Nurse (LPN)
3. First Aid CPR AED
4. Basic Life Saving (BLS)
5. Basic Cardiac Life Support Certification
6. Certified Registered Nurse Practitioner
7. Advanced Cardiac Life Support (ACLS) Certification
8. Registered Dietitian
9. Emergency Medical Technician (EMT)
10. American Heart Association Certification
11. Certified Emergency Nurse
12. Critical Care Registered Nurse (CCRN)
13. Neonatal Resuscitation Program (NRP)
14. American Society for Clinical Pathology (ASCP) Certification
15. Security Clearance

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<sup>17</sup> Burning Glass Technologies, "Labor Insight Real-Time Labor Market Information Tool." 2018-2020.

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### **Important Disclaimers**

All representations included in this report have been produced from primary research and/or secondary review of publicly and/or privately available data and/or research reports. This study examines the most recent data available at the time of the analysis; however, data sets are updated regularly and may not be consistent with previous reports. Efforts have been made to qualify and validate the accuracy of the data and the report findings; however, neither the Centers of Excellence for Labor Market Research (COE), COE host district, nor California Community Colleges Chancellor's Office are responsible for the applications or decisions made by individuals and/or organizations based on this study or its recommendations.

This workforce demand report uses state and federal job projection data that was developed before the economic impact of COVID-19. The COE is monitoring the situation and will provide more information as it becomes available. Please consult with local employers to understand their current employment needs.