OPPAGA Report

School District Postsecondary Industry Certifications

Report No. 19-09

Legislative Charge

2019 General Appropriations Act
(Specific Appropriation Line 123)

The Office of Program Policy Analysis and Government Accountability (OPPAGA) shall conduct a review of the industry certifications funded by this appropriation to determine if they are aligned with statewide and/or regional labor market demands and to determine if the initial annual earnings of students receiving these certifications are comparable to high-skill/high wage entry level wages established for the Workforce Development Areas across the state. OPPAGA shall provide its findings to the President of the Senate and the Speaker of the House of Representatives by October 31, 2019.

Scope

OPPAGA's research on district postsecondary industry certifications focused on two research questions

Are the industry certifications on the school district postsecondary certification funding list aligned with labor market demand?

Do students earning the industry certifications on the district postsecondary funding list have wages comparable to high-skill/high-wage (HSHW) earnings?

Summary

Background

- **Certifications Earned Through the Incentive Policy**
  - School districts receive $1,000 for each student-earned postsecondary industry certification on a list developed and maintained by the Florida Department of Education.
  - The funding list includes over 200 types of industry certifications, and students earned over 4,500 fundable certifications in 2016-17. Most (51%) of the funded certifications earned by district students were in the Health Sciences and HVAC Technician occupational funding areas.

Labor Market Alignment

- **Certification Alignment With Statewide High-Skill/High-Wage (HSHW) Occupations**
  - Many of the certifications earned do not link directly to one specific occupation, and often a single certification type links to multiple potential occupations. Only 26% of earned industry certification types eligible for state funding were linked to at least one statewide HSHW occupation. In addition, only 14% of the potential 73 occupations linked to the earned certifications were on the statewide list of HSHW occupations.

- **Certification Alignment With Regional HSHW Occupations**
  - Demand for occupations associated with fundable industry certifications varied across the state. In 5 of the 17 occupational funding areas, industry certifications were linked to HSHW occupations in 10 or more of the 24 workforce regions.

- **Occupational Gaps**
  - Ten of the 18 HSHW occupations requiring less than associate-level training on the statewide demand occupation list had no reported fundable certifications associated with them.

Employment and Earnings

- **Employment Rates and Earnings Among Early-Career and Mid-Career Individuals**
  - Among early-career certification earners, 94% were found employed the year after certification and 42% of those employed were earning HSHW entry-level wages. Among mid-career certification earners, 98% were found employed the year after certification, and 77% showed earnings increases.

- **Employment Rates and Earnings of Academic Program Completers and Non-Completers**
  - Among students who earned a fundable certification and completed their academic program, 84% were found employed the following year and 52% earned wages at or above the entry-level HSHW threshold. Among certification earners who did not complete their academic program, 70% were found employed and 41% earned wages at or above the entry-level HSHW threshold.

Overview

Background

Overview of the Industry Certification Incentive Funding Program

Summary — The Florida Legislature rewards school districts for certain industry certifications earned by postsecondary students

The Legislature establishes target occupational funding areas in the General Appropriations Act for fundable industry certifications

Staff in the Florida Department of Education develop annual lists of fundable certifications in each occupational funding area for school districts

The department solicits recommended additions to the list from school districts and reviews each recommendation

The fundable certification lists are approved by the State Board of Education and adopted into Florida Administrative Code[1]

Each fundable certification earned by a school district student results in incentive funding of $1,000 for the school district

Certifications earned in continuing workforce education are not eligible for funding

[1] If a recommendation is denied, school districts may re-submit proposed certifications with additional supporting evidence.

Source: OPPAGA analysis of data provided by the Florida Department of Education.

Occupational Funding Areas Over Time

Summary — The Florida Legislature has added several occupational funding areas since program inception in 2013

Original 2013 List

- Advanced Manufacturing
- Automotive Service Technology
- Cloud Virtualization
- Cyber Security
- FAA Airframe Mechanics
- FAA Power Plant Mechanics
- HVAC Technician
- Pharmacy Technician[1]
- Welding

Added 2014

- Auto Collision Repair and Refinishing
- Computer Programming
- Computer-Aided Drafting
- Electrician
- Health Sciences[1]
- Medium/Heavy Duty Truck Technician
- Network Support Services

Added 2015

- Plumbing
- Public Safety[2]

[1] The original 2013 list included a Pharmacy Technician category but no other health areas. In 2014, the Legislature added Health Sciences as a broad category and incorporated into it Pharmacy Technician.

[2] The 2013 and 2014 lists did not include public safety areas. In 2015, the Legislature added Corrections Officer, Law Enforcement Officer, and Public Safety Telecommunicator. In 2016, the Legislature removed those three specific categories and added a broad category of Public Safety.

Source: General Appropriations Acts, 2013–2019.

Current Occupational Funding Areas

Currently, specific types of industry certifications in 17 broad occupational areas are eligible for funding

Health Sciences[1]	Network Support Services	HVAC Technician	Advanced Manufacturing	Automotive Service Technology
Medium/Heavy Truck Technician	Public Safety	Computer-Aided Drafting	Auto Collision and Refinishing	Welding
FAA Airframe Mechanics	Electrician	Cybersecurity	Computer Programming	Cloud Virtualization
	Plumbing	FAA Power Plant Mechanics		

[1] Although Health Sciences – Pharmacy Technician was merged with Health Sciences in 2014, in the remainder of the report, we maintain Health Sciences – Pharmacy Technician as a separate Occupational Funding Area.

Source: General Appropriations Act, 2019.

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Rubric for Adding Postsecondary Certifications to the Funding List

Summary

The Department of Education has criteria for reviewing proposed additions to the list of fundable certifications

- The Florida Department of Education developed a rubric that includes criteria for evaluating proposed additions to the funding list. The department determines whether a proposed addition

  - ✓ Is an industry certification;

  - ✓ Supports a target occupational funding area established in the General Appropriations Act;

  - ✓ Is the highest available level of certification; and

  - ✓ Has an appropriately proctored written exam that is scored by the certifying agency.

Source: Florida Department of Education.

Approved Fundable Postsecondary Certifications

Summary ▸ Over 200 types of specific postsecondary industry certifications within the 17 occupational areas are approved for funding

Year	Certifications
2016-17	201
2015-16	196
2014-15	184
2013-14	152

The list of approved fundable postsecondary industry certifications has grown from 152 in 2013-14 to 201 in 2016-17
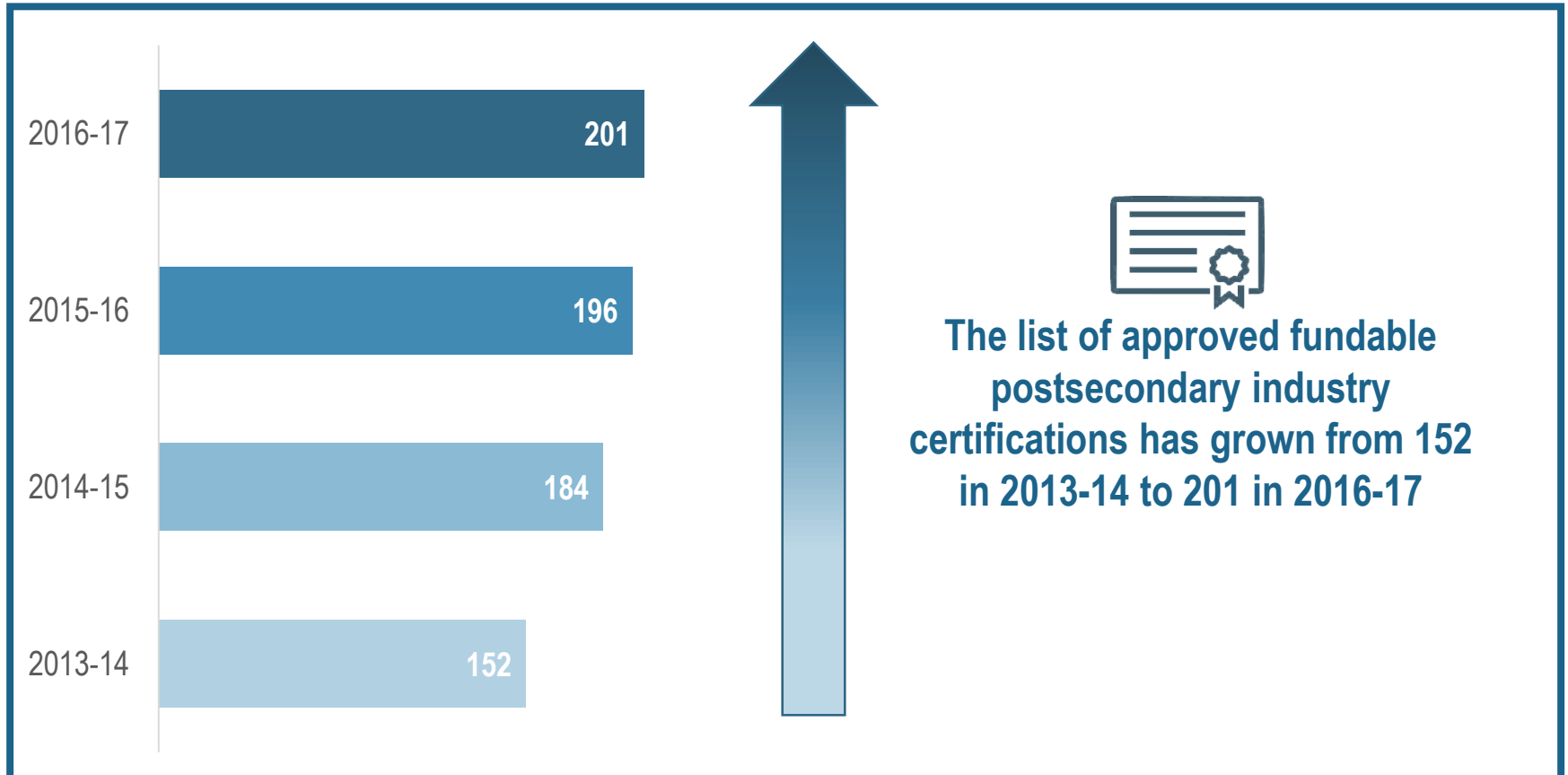
Note: Industry Certifications were not funded for districts in 2017-18.

Source: OPPAGA analysis of data provided by the Florida Department of Education.
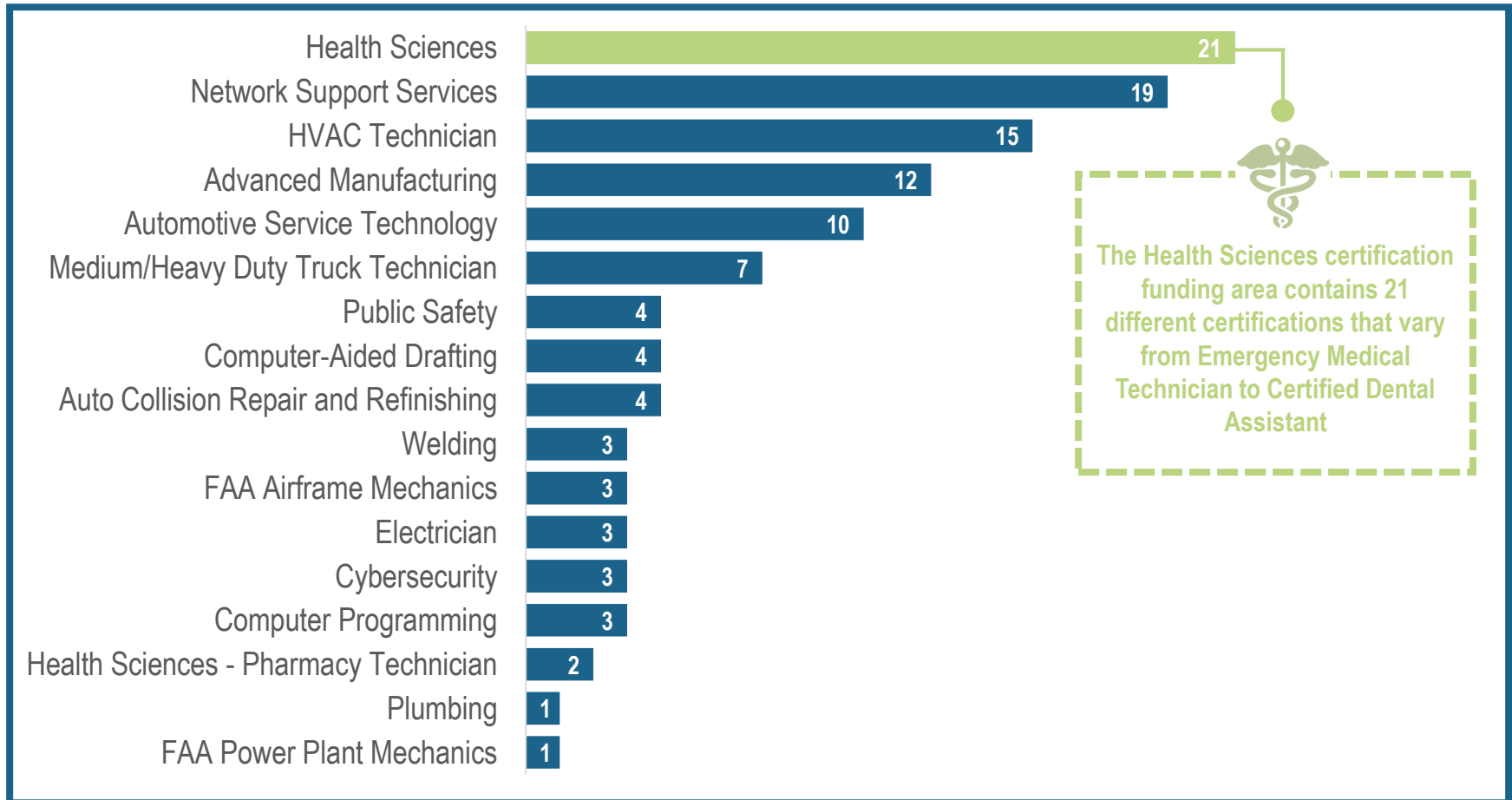
Individual Postsecondary Certification Types Within Each Occupational Funding Area

Summary Among certifications earned between 2013-14 and 2016-17, the number of individual postsecondary industry certification types varied by occupational funding area[1]

Occupational Funding Area	Number
Health Sciences	21
Network Support Services	19
HVAC Technician	15
Advanced Manufacturing	12
Automotive Service Technology	10
Medium/Heavy Duty Truck Technician	7
Public Safety	4
Computer-Aided Drafting	4
Auto Collision Repair and Refinishing	4
Welding	3
FAA Airframe Mechanics	3
Electrician	3
Cybersecurity	3
Computer Programming	3
Health Sciences - Pharmacy Technician	2
Plumbing	1
FAA Power Plant Mechanics	1

The Health Sciences certification funding area contains 21 different certifications that vary from Emergency Medical Technician to Certified Dental Assistant
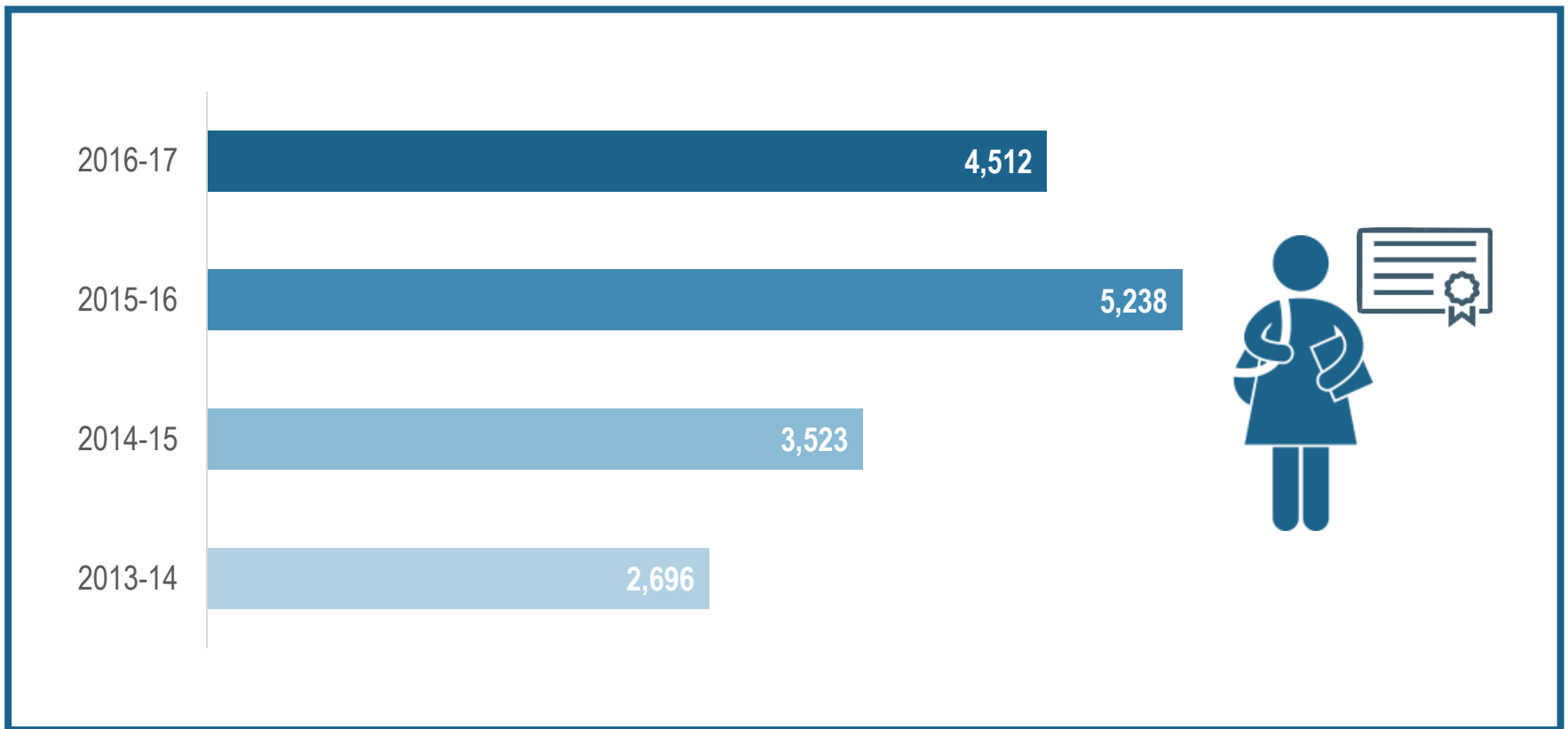
[1] From 2013-14 to 2016-17, no fundable industry certifications in the Cloud Virtualization occupational funding area were earned.

Source: OPPAGA analysis of data provided by the Florida Department of Education.

Funded Postsecondary Industry Certifications Earned by School District Students

Summary ▶ The number of funded postsecondary industry certifications earned by district students has increased since 2013-14 but dropped between 2015-16 and 2016-17 [1,2]

Year	Certifications
2016-17	4,512
2015-16	5,238
2014-15	3,523
2013-14	2,696

[1] The figures above reflect the number of certifications earned in each year. These figures will differ from Florida Department of Education school district funding reports, which include the number of certifications funded each year, and funding may be lagged.
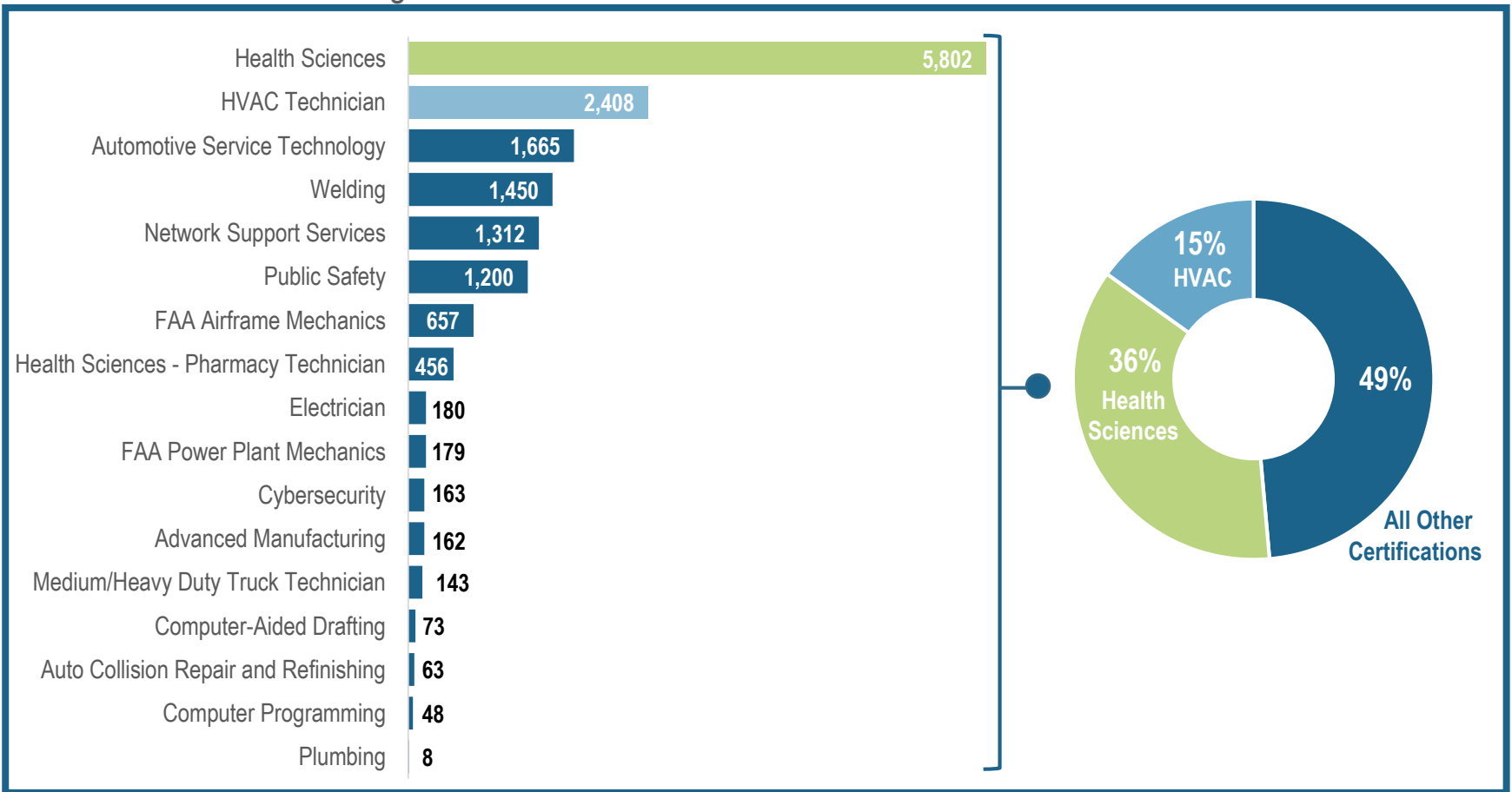
[2] Industry certifications were not funded for school districts in 2017-18.

Source: OPPAGA analysis of data provided by the Florida Department of Education.

Postsecondary Certifications Earned by Occupational Funding Area

Summary ▸ From 2013-14 to 2016-17, 51% of the funded postsecondary certifications earned by district students were in the health sciences and HVAC Technician occupational funding areas[1]

Occupational Funding Area	Certifications
Health Sciences	5,802
HVAC Technician	2,408
Automotive Service Technology	1,665
Welding	1,450
Network Support Services	1,312
Public Safety	1,200
FAA Airframe Mechanics	657
Health Sciences - Pharmacy Technician	456
Electrician	180
FAA Power Plant Mechanics	179
Cybersecurity	163
Advanced Manufacturing	162
Medium/Heavy Duty Truck Technician	143
Computer-Aided Drafting	73
Auto Collision Repair and Refinishing	63
Computer Programming	48
Plumbing	8

Pie chart:
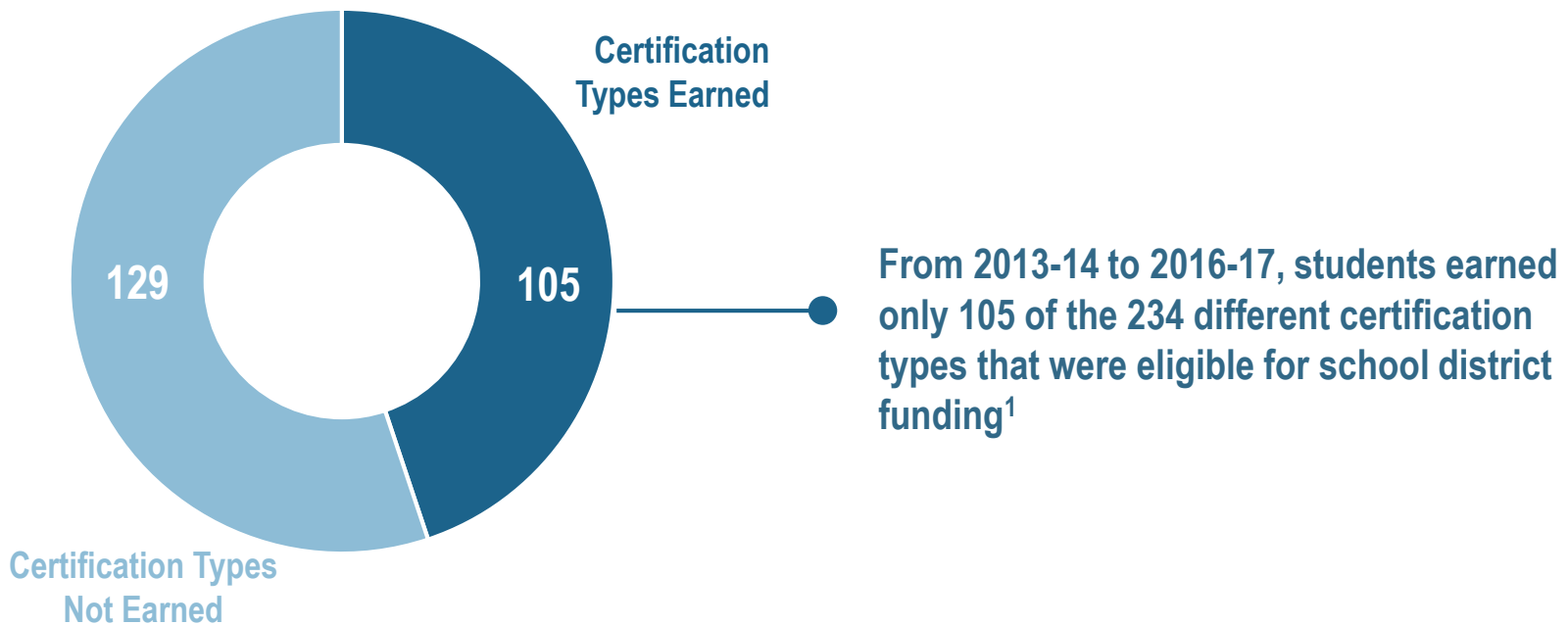- 15% HVAC
- 36% Health Sciences
- 49% All Other Certifications

[1] From 2013-14 to 2016-17, no fundable industry certifications in the Cloud Virtualization occupational funding area were earned.

Source: OPPAGA analysis of data provided by the Florida Department of Education.

Postsecondary Certifications Earned by School District Students

Summary From 2013-14 to 2016-17, school district students earned postsecondary certifications representing 105 of the 234 certification types approved for funding

Certification Types Earned

129

105

Certification Types Not Earned

From 2013-14 to 2016-17, students earned only 105 of the 234 different certification types that were eligible for school district funding[1]

Note: The fundable certification lists vary slightly from year to year. Unless otherwise noted, here and in the remainder of this report we define "earned fundable certification" as a certification earned from 2013-14 to 2016-17 that was or would have been eligible for incentive funding based on the most current (2018-19) incentive funding list. However, in 2018-19, one general welding certification (Certified Welder) was replaced with 10 comparable specialty welding certifications. General welding certifications earned between 2013-14 and 2016-17 are included in the results.

[1] Over time, fundable industry certifications have been added and removed. Overall, 234 different certifications have been eligible for school district funding even though, at most, only 201 certifications were approved in any given year between 2013-14 and 2016-17.

Source: OPPAGA analysis of data provided by the Florida Department of Education.

Alignment With Labor Market Demand

Statewide and Regional Demand Occupations Lists

Criteria for 2019-20 Statewide Demand Occupations List

- ✓ Occupation requires training at the postsecondary certificate or associate's degree level

- ✓ 500 annual openings and average growth rate of 1.26% or 1,200 annual openings with any positive growth

- ✓ Mean wage of $15.13/hour and entry wage of $12.31/hour

- ✓ HSHW occupations have a mean wage of at least $23.72/hour and entry wage of $15.13/hour

- ✓ 55 occupations are on this statewide list, 18 of which are classified as HSHW

33% HSHW

Total Occupations (55)
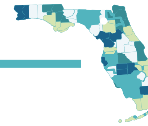
Criteria for 24 Regional Lists

- ✓ Occupation requires training at the postsecondary certificate, associate's degree, or bachelor's degree level

- ✓ 30-80 annual openings and positive growth

- ✓ Minimum mean wage varies by region

- ✓ HSHW threshold varies by region

- ▪ **Highest regional threshold:** Region 21 (Palm Beach County)
  - – Mean wage of $24.92/hour, entry wage of $15.89/hour

- ▪ **Lowest regional threshold:** Region 6 (Hamilton, Jefferson, Lafayette, Madison, Suwannee, and Taylor Counties)
  - – Mean wage of $21.89/hour, entry wage of $13.96/hour

Source: Florida Department of Economic Opportunity.

Method for the Labor Market Alignment Analysis

Methodology

The Florida Department of Education does not directly link types of industry certifications to occupations. Therefore, to associate certification types with occupations, we analyzed student data from 2013-14 to 2016-17 to identify program enrollments of certification earners, and then used a crosswalk that connects academic programs to occupations.[1,2]

105
Earned Fundable Certification Types[3]

112
Programs

73
Potential Occupations

Compared Occupations to Demand Occupation Lists

77% of certification types were associated with more than one academic program

61% of academic programs were associated with more than one occupation
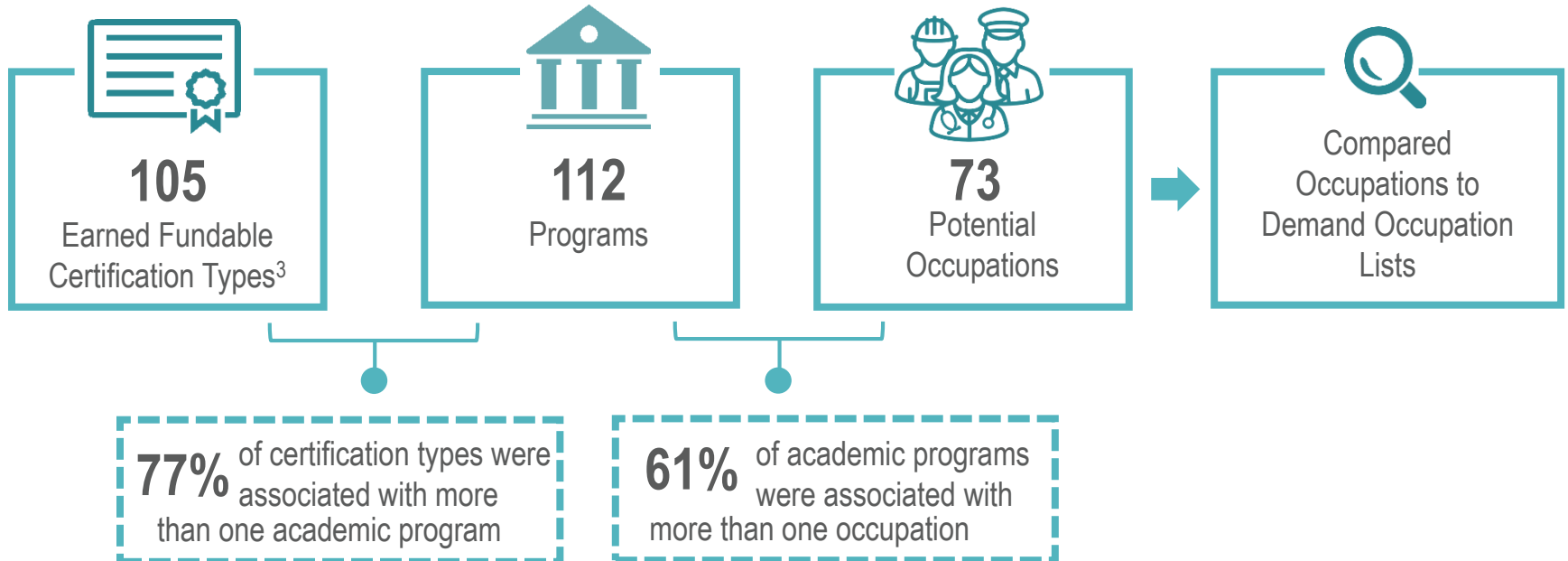
[1] We identified student programs as those a student completed, unless students had not completed any programs. In cases with no program completion, programs were based on student enrollment in any valid school district program.

[2] To match programs to occupations, we used a crosswalk managed by the Florida Department of Education and referred to as the "CIPxSOC Table."

[3] As noted on slide 15, we defined "earned fundable certification" as a certification earned from 2013-14 to 2016-17 that was or would have been eligible for incentive based on the most current (2018-19) incentive funding list. Programs associated with Certified Welder between 2013-14 and 2016-17 are included in the figures above.

Source: OPPAGA analysis of data provided by the Florida Department of Education.

Example of Certification-to-Program-to-Occupation Linkage

Summary

Law Enforcement Officer certification is associated with 5 different programs that are, in turn, associated with 2 possible occupations[1]

Certification ----- **Programs** ----- **Occupations**

Law Enforcement Officer

- Crossover Law Enforcement Officer to Correctional Officer
- Dual Certification Correctional Law Enforcement Officer

- Police and Sheriff's Patrol Officers

  or

- Correctional Officers and Jailers

- Law Enforcement Officer
- Crossover Correctional Officer to Law Enforcement Officer

- Police and Sheriff's Patrol Officers
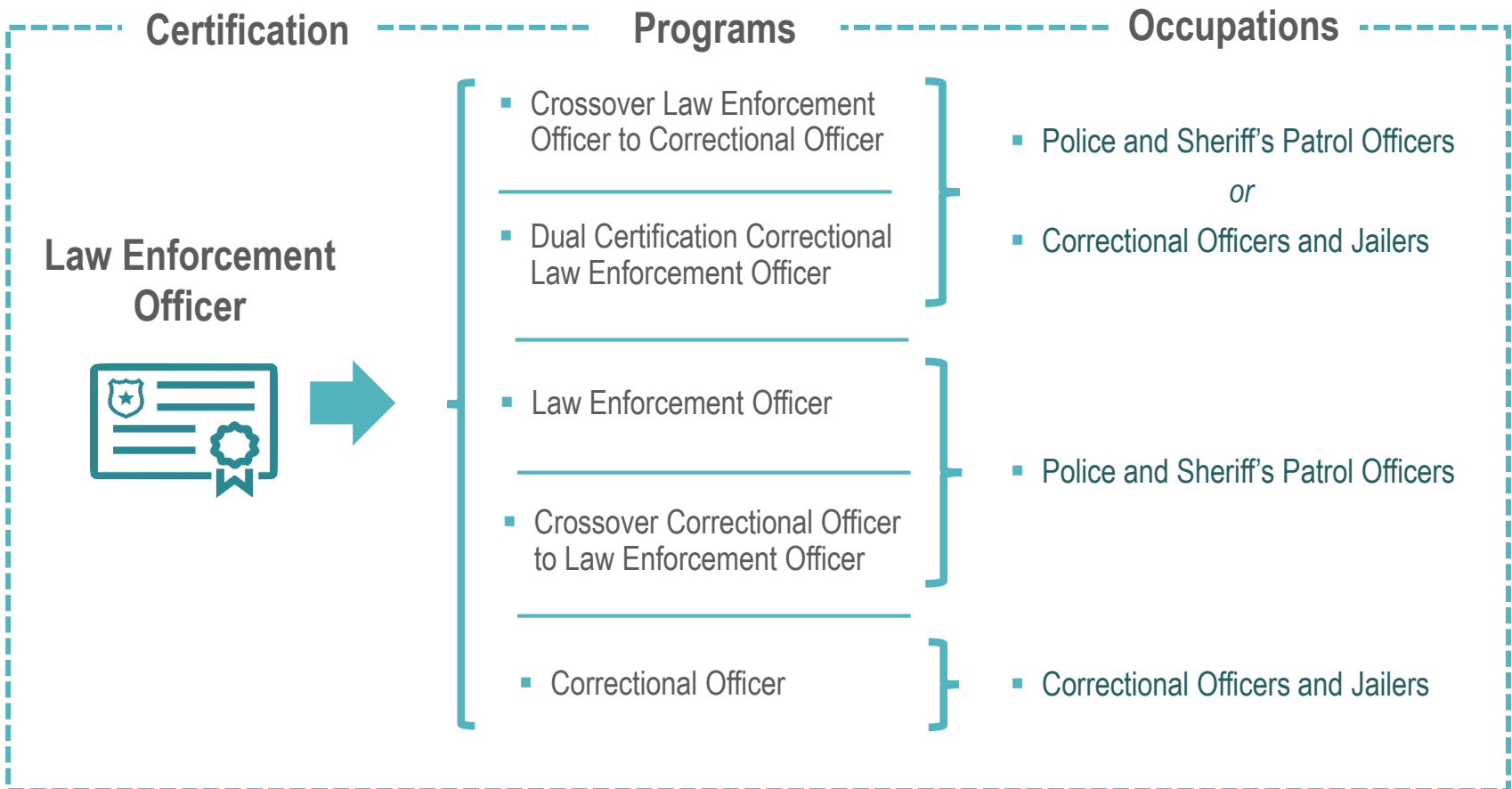
- Correctional Officer

- Correctional Officers and Jailers

[1] To match programs to occupations, we used a crosswalk managed by the Florida Department of Education and referred to as the "CIPxSOC Table."

Certification Linkages to HSHW Occupations on the Statewide Demand Occupations List

Summary	Only 26% of earned fundable postsecondary industry certification types are linked to any statewide HSHW occupations; certifications in 9 of the 17 occupational funding areas are not linked to any statewide HSHW occupations

26% of the 105 earned fundable certification types are linked to at least one HSHW occupation on the Statewide Demand Occupations List

14% of all 73 occupations linked to certifications were HSHW occupations on the Statewide Demand Occupations List

All specific certifications in computer-aided drafting and cybersecurity are linked to at least one HSHW occupation[1]

None of the certifications in nine areas are linked to a statewide HSHW occupation[2]

[1] There are four certifications for computer aided drafting and three certifications for cybersecurity.

[2] The nine areas are Advanced Manufacturing, Auto Collision Repair and Refinishing, Automotive Service Technology, Computer Programming, Electrician, Health Sciences - Pharmacy Technician, HVAC Technician, Medium/Heavy Duty Truck Technician, and Plumbing.

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Source: OPPAGA analysis of data provided by the Florida Department of Education.

Certification Linkages to HSHW Occupations on the Regional Demand Occupations Lists

Workforce Regions

The demand and classification as HSHW for occupations associated with certifications varied across the state; in 5 of the 17 occupational funding areas, industry certifications were linked to HSHW occupations in 10 or more of the 24 workforce regions[1]
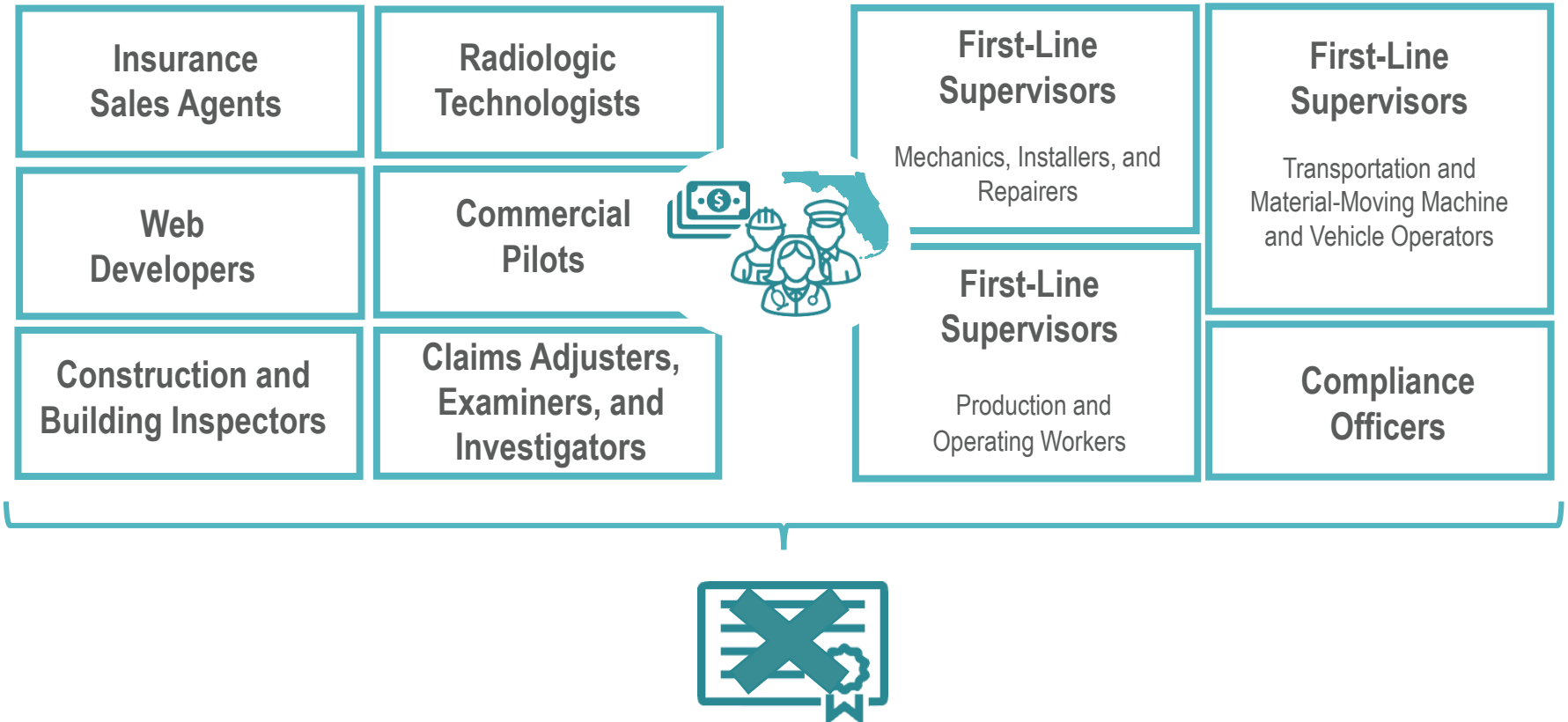

Occupation	Count
FAA Power Plant Mechanics	23
Cybersecurity	17
FAA Airframe Mechanics	16
Computer-Aided Drafting	14
Network Support Services	13
Public Safety	8
Welding[2]	4
Computer Programming	2
Electrician	1
Medium/Heavy Duty Truck Technician	1
Health Sciences	1

Related occupations were classified as in demand and HSHW in more than half of workforce regions

Related occupations were classified as in demand and HSHW in only one workforce region

[1] Industry certifications in six occupational funding areas were not linked to a HSHW occupation in any of Florida's 24 workforce regions: Automotive Service Technology, Advanced Manufacturing, HVAC Technician, Auto Collision Repair and Refinishing, Health Sciences - Pharmacy Technician, and Plumbing.

[2] As noted previously, in 2018-19, one general welding certification (Certified Welder) was replaced with 10 comparable specialty welding certifications. General welding certifications earned between 2013-14 and 2016-17 are included in the figures. Also, there were no earned fundable industry certifications in the Cloud Vizualization occupational funding area.

Source: OPPAGA analysis of data provided by the Florida Department of Education.

HSHW Occupations on the Statewide Demand Occupations List That Are Not Associated With Any Earned Fundable Certifications

Summary Ten of the 18 HSHW occupations on the Statewide Demand Occupation List had no reported fundable certifications associated with them[1]

Insurance Sales Agents	**Radiologic Technologists**
Web Developers	**Commercial Pilots**
Construction and Building Inspectors	**Claims Adjusters, Examiners, and Investigators**

First-Line Supervisors

Mechanics, Installers, and Repairers

First-Line Supervisors

Production and Operating Workers

First-Line Supervisors

Transportation and Material-Moving Machine and Vehicle Operators

Compliance Officers

[1] To match programs to occupations, we used a crosswalk managed by the Florida Department of Education and referred to as the "CIPxSOC Table."

Source: OPPAGA analysis of data provided by the Florida Department of Education.

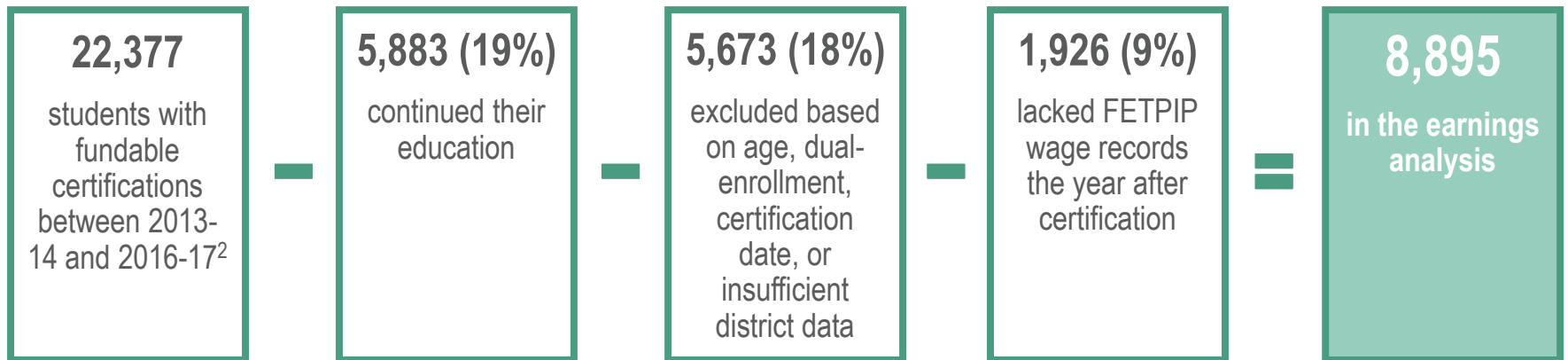# Employment and Earnings of Certification Earners

Earnings Analysis Sample and Method

Methodology ▶ We examined post-certification earnings for 8,895 students who completed or exited their program with certifications between 2013-14 and 2016-17 and who

- ✓ Did not continue their education the following year;
- ✓ Did not earn a certification while under 18 or dual-enrolled;
- ✓ Had an district record for at least one program or completion; and
- ✓ We could observe at least four earnings quarters post-certification.

When students earned more than one certification, we classified and examined student outcomes based on their highest-level funded certification in the most recent year they earned any certification[1]

| **22,377** students with fundable certifications between 2013-14 and 2016-17[2] | **−** | **5,883 (19%)** continued their education | **−** | **5,673 (18%)** excluded based on age, dual-enrollment, certification date, or insufficient district data | **−** | **1,926 (9%)** lacked FETPIP wage records the year after certification | **=** | **8,895** in the earnings analysis |

[1] We counted earnings of the first four quarters after the student exited their program based on whichever was the last date: certification date; graduation date; or, in the case of students who did not complete a program, their last enrollment end date.
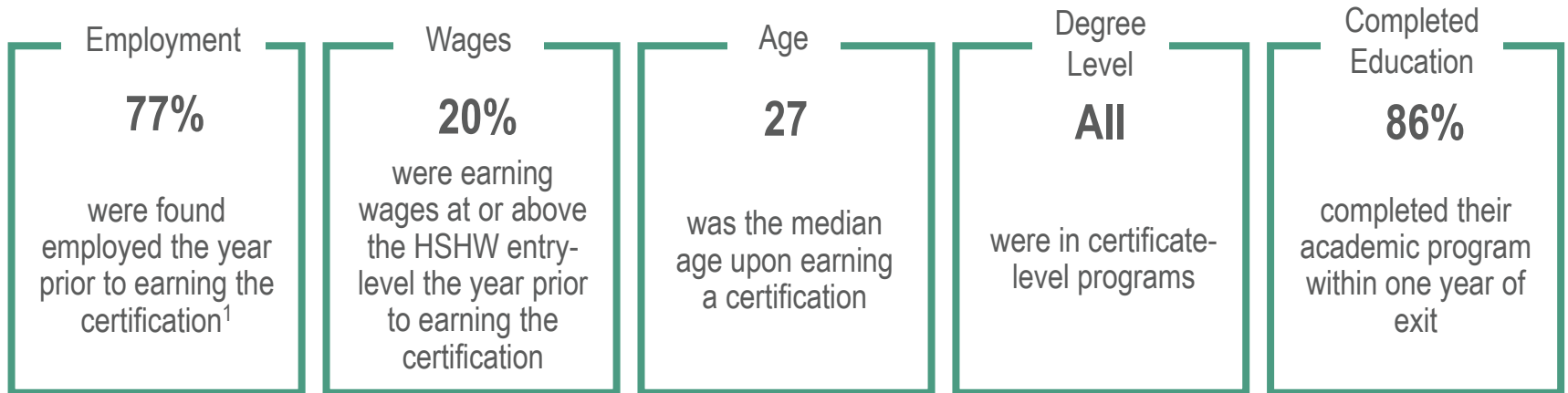
[2] As noted previously, we defined "earned fundable certification" as a certification earned from 2013-14 to 2016-17 that was or would have been eligible for incentive based on the most current (2018-19) incentive funding list. Programs associated with Certified Welder between 2013-14 and 2016-17 are included in the figures above.

Source: OPPAGA analysis of data provided by the Florida Department of Education.

Characteristics of Certification Recipients

Summary 77% of certification recipients were employed prior to receiving the certification; 20% were already earning at least entry-level HSHW earnings

Among certification recipients employed after earning the certification:

Employment	Wages	Age	Degree Level	Completed Education
77%	**20%**	**27**	**All**	**86%**
were found employed the year prior to earning the certification[1]	were earning wages at or above the HSHW entry-level the year prior to earning the certification	was the median age upon earning a certification	were in certificate-level programs	completed their academic program within one year of exit

The percentage of certification earners over 25 varied by occupational area, ranging from nearly 86% in Plumbing to 38% in Automotive service technology

Note: Our analysis was unable to identify the occupations of certification earners as this information is not available through the Florida Education and Training Placement Information Program (FETPIP). Therefore, while inferences can be made, earnings in the analysis may not be directly related to the actual certification that the recipient received.

[1] FETPIP includes wage data for individuals found employed in the Florida Unemployment Insurance System. In addition to those not in the labor force, individuals may be absent from FETPIP if they are employed outside of Florida or employed in jobs not covered by unemployment insurance.

Source: OPPAGA analysis of data provided by the Florida Department of Education.

Certification Recipients' Earnings One Year After Certification

Summary

Among individuals employed before certification, one year after certification 42% of entry-level recipients earned HSHW wages, and 77% of mid-career recipients increased their earnings

Entry-Level Earnings

Among certification earners who were not earning HSHW entry-level earnings before certification

- **94%** were found employed the year after certification
- **42%** of those employed were earning HSHW entry-level earnings[1]

n = 7,626

Mid-Career Earnings

Among certification earners who were earning HSHW entry-level earnings before certification

- **98%** were found employed the year after certification
- Average annual earnings increased from **$40,000** to **$46,000** [2]
- **77%** experienced earnings increases

n = 1,769

[1] The entry-level HSHW earnings threshold was between $13.07 (2012-13) and $14.72 (2018-19) for the years we reviewed.
[2] Wages are not adjusted for inflation.

Source: OPPAGA analysis of data provided by the Florida Department of Education.

Earnings of Certification Recipients Who Completed Their Academic Programs Compared to Non-Completers

Summary

Among all industry certification recipients, those who completed their academic program had higher average earnings than non-completers

Earnings of Academic Program Completers

Among students who earned a fundable certification and completed their academic program

- **84%** were found employed the following year
- **52%** earned wages at or above the entry-level HSHW threshold
- **$14.44** was their median initial hourly earnings

n = 9,325

Earnings of Non-Completers

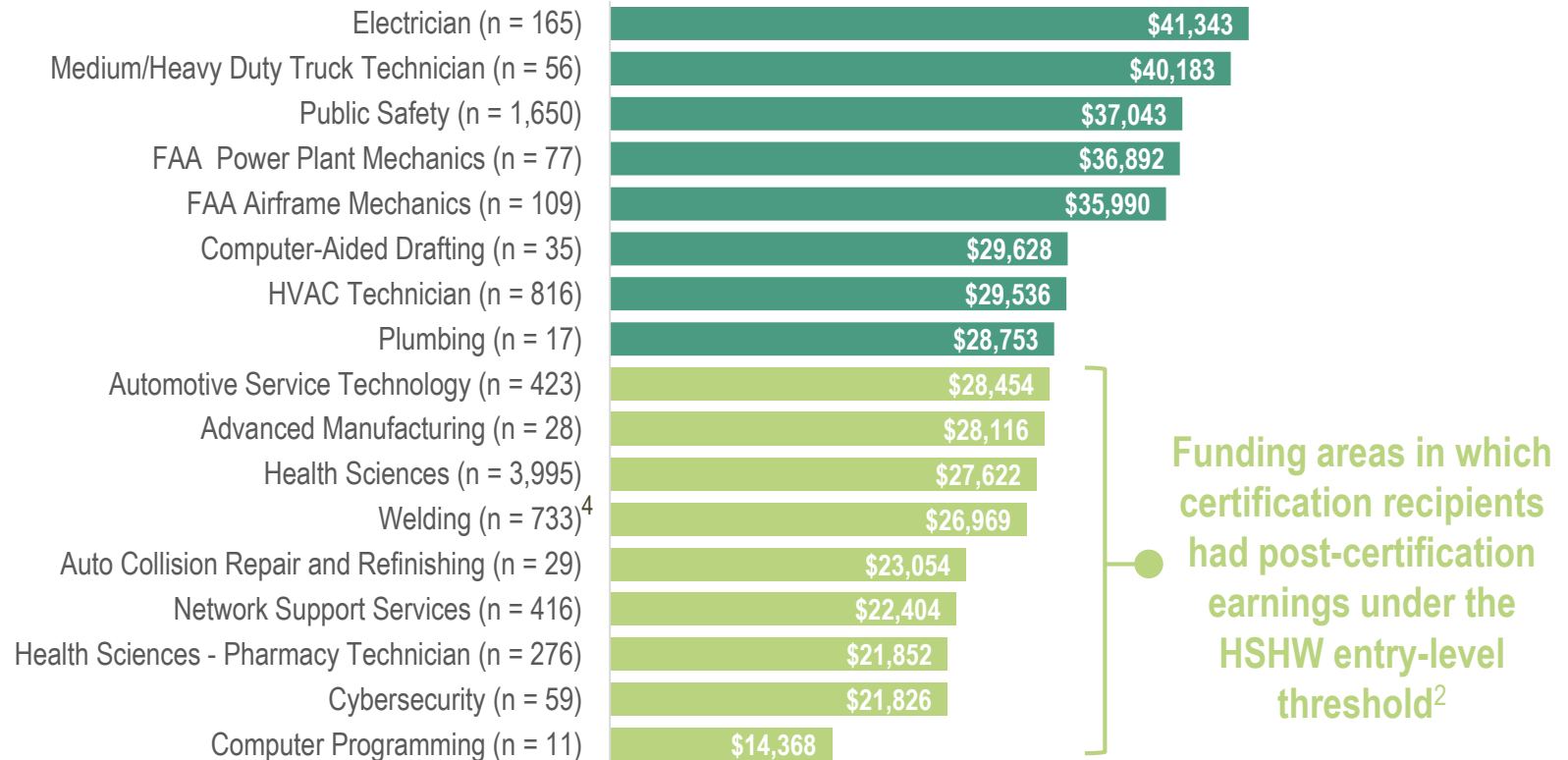Among students who earned a fundable certification but did not complete their academic program

- **70%** were found employed
- **41%** earned wages at or above the entry-level HSHW threshold
- **$12.32** was their median initial hourly earnings

n = 1,496

Median Earnings of Recipients One Year After Certification by Occupational Funding Area

Summary ▶ Median earnings of recipients one year after certification varied by occupational funding area; nine areas had median earnings under the HSHW entry-level threshold[1,2,3]

Funding Area	Median Earnings
Electrician (n = 165)	$41,343
Medium/Heavy Duty Truck Technician (n = 56)	$40,183
Public Safety (n = 1,650)	$37,043
FAA Power Plant Mechanics (n = 77)	$36,892
FAA Airframe Mechanics (n = 109)	$35,990
Computer-Aided Drafting (n = 35)	$29,628
HVAC Technician (n = 816)	$29,536
Plumbing (n = 17)	$28,753
Automotive Service Technology (n = 423)	$28,454
Advanced Manufacturing (n = 28)	$28,116
Health Sciences (n = 3,995)	$27,622
Welding (n = 733)[4]	$26,969
Auto Collision Repair and Refinishing (n = 29)	$23,054
Network Support Services (n = 416)	$22,404
Health Sciences - Pharmacy Technician (n = 276)	$21,852
Cybersecurity (n = 59)	$21,826
Computer Programming (n = 11)	$14,368

Funding areas in which certification recipients had post-certification earnings under the HSHW entry-level threshold[2]

[1] Average earnings are based on FETPIP data. We defined the entry-level HSHW threshold as the average threshold for all certification recipients in the funding area in the final sample during the four earnings quarters after exiting their programs. Wages are not adjusted for inflation.

[2] From 2013-14 to 2016-17, no fundable industry certifications in the Cloud Virtualization occupational funding area were earned.
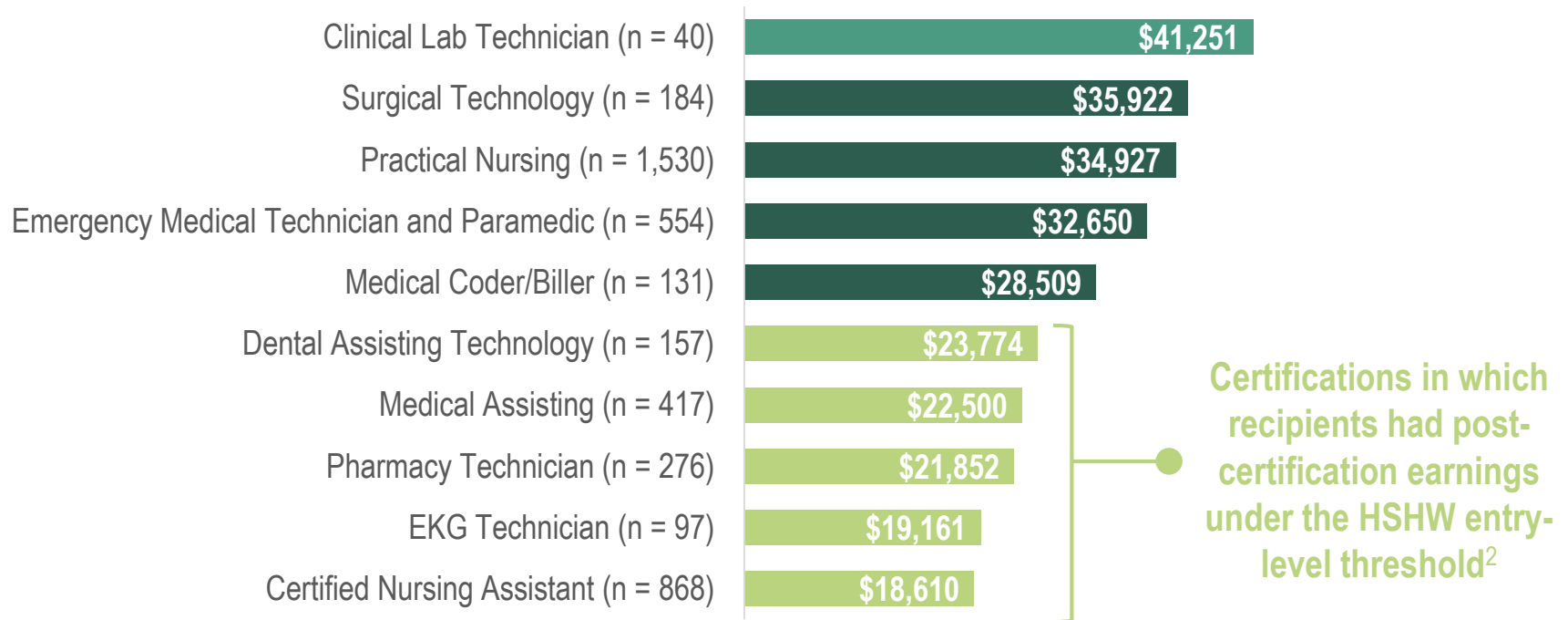
[3] The HSHW threshold ranged by funding area from $28,621 to $29,931.

[4] As noted previously, in 2018-19, one general welding certification (Certified Welder) was replaced with 10 comparable specialty welding certifications. General welding certifications earned between 2013-14 and 2016-17 are included in the figures above.

Source: OPPAGA analysis of data provided by the Florida Department of Education.

Median Earnings of Health Sciences Certification Recipients One Year After Certification

Summary

Recipients of five of nine certifications in the Health Sciences occupational funding area had median earnings under the HSHW entry-level threshold one year after certification[1]

Certification	Median Earnings
Clinical Lab Technician (n = 40)	$41,251
Surgical Technology (n = 184)	$35,922
Practical Nursing (n = 1,530)	$34,927
Emergency Medical Technician and Paramedic (n = 554)	$32,650
Medical Coder/Biller (n = 131)	$28,509
Dental Assisting Technology (n = 157)	$23,774
Medical Assisting (n = 417)	$22,500
Pharmacy Technician (n = 276)	$21,852
EKG Technician (n = 97)	$19,161
Certified Nursing Assistant (n = 868)	$18,610

Certifications in which recipients had post-certification earnings under the HSHW entry-level threshold[2]

[1] Average earnings are based on FETPIP data. We defined the entry-level HSHW threshold as the average threshold for all certification recipients in the funding area in the final sample during the four earnings quarters after exiting their programs. Wages are not adjusted for inflation.

[2] The average HSHW threshold ranged by certification from $28,621 to $29,931.

Note: We did not report median earnings for individuals who earned certifications in Orthopedic Technology and Clinical Hemodialysis because the number of certification earners was too low to produce reliable estimates.

Source: OPPAGA analysis of data provided by the Florida Department of Education.

Appendix

Count of Earned Certifications by Funding Area and Certification Title, 2013-14 Through 2017-18

Funding Area	Certification Title	Certifications Earned[1]
Advanced Manufacturing	Mastercam Associate Certification - Mill Design and Toolpaths	50
	Manufacturing Skill Standards Council Certified Production Technician	25
	National Institute for Metalworking Skills Machining Level I - Turning Operations: Turning Between Centers	20
	National Institute for Metalworking Skills Computer Numerical Control Milling	13
	National Institute for Metalworking Skills Machining Level II - Grinding Skills II	12
	National Institute for Metalworking Skills Machining Level II - Manual Milling	11
	National Institute for Metalworking Skills Computer Numerical Control Turning	9
	National Institute for Metalworking Skills Machining Level I - Turning Operations: Turning Chucking Skills	8
	Mastercam Certified Programmer Mill Level 1	6
	National Institute for Metalworking Skills Manual Turning - Between Centers	5
	National Institute for Metalworking Skills Machining Level II - Computer Numerical Control Milling Skills II	2
	National Institute for Metalworking Skills Machining Level II – Electrical Discharge Machining - Plunge	1
	Total	162
Auto Collision Repair and Refinishing	Automotive Service Excellence - Painting and Refinishing	38
	Automotive Service Excellence - Non-structural Analysis and Damage Repair	14
	Automotive Service Excellence - Mechanical and Electrical Components	6
	Automotive Service Excellence - Structural Analysis and Damage Repair	5
	Total	63

Count of Earned Certifications by Funding Area and Certification Title, 2013-14 Through 2017-18

Funding Area	Certification Title	Certifications Earned[1]
Automotive Service Technology	Automotive Service Excellence - Brakes	399
	Automotive Service Excellence - Electrical/Electronic Systems	325
	Automotive Service Excellence - Suspension and Steering	297
	Automotive Service Excellence - Heating and Air Conditioning	209
	Automotive Service Excellence - Engine Repair	147
	Automotive Service Excellence - Engine Performance	105
	Automotive Service Excellence - Manual Drive Train and Axles	93
	Automotive Service Excellence - Automatic Transmission/Transaxle	87
	Automotive Service Excellence - Advanced Engine Performance Specialist	2
	Automotive Service Excellence - Light Vehicle Diesel Engines	1
	Total	1,665
Computer Programming	Certified Internet Web Design Specialist	24
	Certified Internet Web JavaScript Specialist	23
	Certified Internet Web Design Professional	1
	Total	48
Computer-Aided Drafting	Autodesk Certified Professional - AutoCAD	53
	Certified Drafter - Architectural	13
	Autodesk Certified Professional - Revit Architecture	6
	Autodesk Certified Professional - Inventor	1
	Total	73

Count of Earned Certifications by Funding Area and Certification Title, 2013-14 Through 2017-18

Funding Area	Certification Title	Certifications Earned[1]
Corrections Officer	Correctional Officer	160
	Total	160
Cybersecurity	CompTIA Security+	138
	Certified Internet Web Security Specialist	15
	Certified Internet Web Security Professional	10
	Total	163
Electrician	National Center for Construction Education and Research Electrical - Level 4 (Postsecondary)	99
	National Joint Apprenticeship and Training Committee Electrical - Level 5	79
	Marine Electrical Certification	2
	Total	180
Federal Aviation Administration Airframe Mechanics	Federal Aviation Administration Aviation Maintenance Technician - General	495
	Federal Aviation Administration Airframe Mechanic	159
	Aircraft Electronics Technician	3
	Total	657
Federal Aviation Administration Power Plant Mechanics	Federal Aviation Administration Aviation Maintenance Technician - Powerplant	179
	Total	179
Health Sciences - Certified Nursing Assistant	Certified Nursing Assistant	1,413
	Total	1,413
Health Sciences - Clinical Hemodialysis Technician	Certified Clinical Hemodialysis Technician	8
	Certified Hemodialysis Technologist/Technician	2
	Total	10

Count of Earned Certifications by Funding Area and Certification Title, 2013-14 Through 2017-18

Funding Area	Certification Title	Certifications Earned[1]
Health Sciences – Clinical Lab Technician	Medical Laboratory Technician (American Medical Technologists)	34
	Medical Laboratory Technician (American Association of Bioanalysts)	12
	Total	46
Health Sciences - Dental Assisting Technology	Certified Dental Assistant	147
	Total	147
Health Sciences – Electrocardiogram Technician	Certified Electrocardiogram Technician	170
	Total	170
Health Sciences - Emergency Medical Technician and Paramedic	Emergency Medical Technician	765
	Paramedic	135
	Total	900
Health Sciences – Medical Assisting	Registered Medical Assistant	194
	Certified Medical Assistant	150
	Certified Clinical Medical Assistant	96
	Total	440
Health Sciences - Medical Coder/Biller	Certified Professional Coder	67
	Certified Billing & Coding Specialist	33
	Certified Coding Associate	11
	Certified Coding Specialist - Physician-based	9
	Certified Coding Specialist	8
	Certified Professional Biller	6
	Total	134
Health Sciences – Orthopedic Technology	Orthopaedic Technologist Certified	4
	Total	4

Count of Earned Certifications by Funding Area and Certification Title, 2013-14 Through 2017-18

Funding Area	Certification Title	Certifications Earned[1]
Health Sciences - Pharmacy Technician	Pharmacy Technician	447
	Certified Pharmacy Technician	9
	Total	456
Health Sciences – Practical Nursing	National Licensed Practical Nurse	2,343
	Total	2,343
Health Sciences – Surgical Technology	Certified Surgical Technologist	195
	Total	195
Heating, Ventilation, and Air Conditioning Technician	Heating, Ventilation, and Air Conditioning Excellence - Residential Air Conditioning	698
	Heating, Ventilation, and Air Conditioning Excellence - Heat Pump	395
	Heating, Ventilation, and Air Conditioning Excellence Employment Ready - Electrical	290
	Heating, Ventilation, and Air Conditioning Excellence - Electric Heat	277
	National Center for Construction Education and Research Heating, Ventilation, and Air Conditioning - Level 4 (Postsecondary)	152
	National Center for Construction Education and Research Heating, Ventilation, and Air Conditioning - Level 2	140
	Heating, Ventilation, and Air Conditioning Excellence - Light Commercial Air Conditioning	125
	National Center for Construction Education and Research Heating, Ventilation, and Air Conditioning - Level 3	104
	Heating, Ventilation, and Air Conditioning Excellence - Gas Heat	82
	Heating, Ventilation, and Air Conditioning Excellence - Light Commercial Refrigeration	74
	National Center for Construction Education and Research Heating, Ventilation, and Air Conditioning - Level 4	30
	Air to Air Heat Pump Service Technician	23
	Air Conditioning Service Technician	8
	Air Conditioning Installation Specialization	6
	Air to Air Heat Pump Installation Technician	4
	Total	2,408

Count of Earned Certifications by Funding Area and Certification Title, 2013-14 Through 2017-18

Funding Area	Certification Title	Certifications Earned[1]
Law Enforcement Officer	Law Enforcement Officer	393
	Total	393
Medium/Heavy Duty Truck Technician	Automotive Service Excellence - Brakes	38
	Automotive Service Excellence - Diesel Engines	32
	Automotive Service Excellence - Electrical/Electronic Systems	27
	Automotive Service Excellence - Drive Train	17
	Automotive Service Excellence - Preventive Maintenance Inspection	12
	Automotive Service Excellence - Heating, Ventilation, and Air Conditioning	11
	Automotive Service Excellence - Suspension and Steering	6
	Total	143

Count of Earned Certifications by Funding Area and Certification Title, 2013-14 Through 2017-18

Funding Area	Certification Title	Certifications Earned[1]
Network Support Services	CompTIA A+	863
	CompTIA Network+	345
	Associate Certified Electronics Technician	45
	Cisco Certified Network Associate	31
	Certified Internet Web Database Design Specialist	7
	CompTIA Linux+	4
	CompTIA Project+	3
	Microsoft Certified Solutions Associate - Windows 8	2
	Microsoft Certified Solutions Associate - Windows Server 2008	2
	Cisco Certified Design Associate	1
	Cisco Certified Network Professional	1
	Cisco Certified Network Associate Routing and Switching	1
	CompTIA Server+	1
	Certified Wireless Network Administrator	1
	Microsoft Certified Trainer	1

Count of Earned Certifications by Funding Area and Certification Title, 2013-14 Through 2017-18

Funding Area	Certification Title	Certifications Earned[1]
Network Support Services (Continued)	Microsoft Certified Solutions Associate - SQL Server 2012	1
	Microsoft Certified Solutions Associate - Windows 7	1
	Microsoft Certified Solutions Associate - Windows Server 2012	1
	Microsoft Certified Solutions Expert - Business Intelligence	1
	Total	1,312
Plumbing	National Center for Construction Education and Research Plumbing - Level 4 (Postsecondary)	8
	Total	8
Public Safety	Law Enforcement Officer	286
	Fire Fighter II	173
	Correctional Officer	163
	911 Public Safety Telecommunicator	11
	Total	633
Public Safety Telecommunicator	911 Public Safety Telecommunicator	14
	Total	14
Welding	Certified Welder	1,291
	National Center for Construction Education and Research Welder - Level 1	137
	National Center for Construction Education and Research Welding - Level 3 (Postsecondary)	22
	Total	1,450

[1] Certification counts are based on the certification funding list applicable during the year the certification was initially reported to the Florida Department of Education (2013-14 to 2016-17).

Source: OPPAGA analysis of data provided by the Florida Department of Education.

Additional Information

OPPAGA provides performance and accountability information about Florida government in several ways.

- [Reports](#) deliver program evaluation and policy analysis to assist the Legislature in overseeing government operations, developing policy choices, and making Florida government more efficient and effective.
- Government Program Summaries (GPS), an online encyclopedia, www.oppaga.state.fl.us/government, provides descriptive, evaluative, and performance information on more than 200 Florida state government programs.
- [PolicyNotes](#), an electronic newsletter, delivers brief announcements of research reports, conferences, and other resources of interest for Florida's policy research and program evaluation community.

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FLORIDA LEGISLATURE OFFICE OF PROGRAM POLICY ANALYSIS AND GOVERNMENT ACCOUNTABILITY

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