OPPAGA Report

Florida College System Industry Certifications

Report No. 19-10

OPPAGA
Office of Program Policy Analysis and Government Accountability

OCTOBER 31, 2019

Legislative Charge

2019 General Appropriations Act
(Specific Appropriation Line 128)

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 college industry certifications focused on two research questions

Are the industry certifications on the Florida College System funding list aligned with labor market demand?

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

Summary

Background

- **Certifications Earned Through the Incentive Policy**
  - Colleges receive $1,000 for each student-earned 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 15,000 fundable certifications in 2017-18. Most (87%) of the funded certifications earned between 2013-14 and 2017-18 were in the Health Sciences and Public Safety 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. Most (90%) earned industry certification types eligible for state funding were linked to at least one statewide HSHW occupation. However, only 24% of the potential 268 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 11 of the 14 occupational funding areas, industry certifications were linked to HSHW occupations in 10 or more of the 24 workforce regions.

- **Occupational Gaps**
  - Four HSHW occupations requiring associate-level or certificate-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, 98% were found employed the year after certification and 63% of those employed were earning HSHW entry-level wages. Among mid-career certification earners, 99% 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, 94% were found employed the following year and 69% earned at least the entry-level HSHW threshold. Among certification earners who did not complete their academic program, 90% were found employed and 59% earned wages at or above the entry level HSHW threshold.

Overview

1 **Background**

2 **Alignment with Labor Market Demand**

3 **Employment and Earnings of Certification Earners**

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Background

Overview of the Industry Certification Incentive Funding Program

Summary ▶ The Florida Legislature rewards colleges for certain industry certifications earned by 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 certification types in each occupational funding area for the Florida College System

The department solicits from colleges recommended additions to the list 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 college student results in incentive funding of $1,000 for the college

Certifications earned in continuing workforce education are not eligible for funding

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

Occupational Funding Areas Over Time

Summary ▸ The Florida Legislature added several occupational funding areas in 2014; no further changes have been made since then

Original 2013 List

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

Added in 2014

- Auto Collision Repair and Refinishing
- Computer Programming
- Electrician
- Health Sciences
- Network Support Services
- Public Safety

Source: General Appropriations Acts, 2013–2019.

Current Occupational Funding Areas

Summary Currently, specific types of industry certifications in 15 broad occupational areas are eligible for funding

Advanced Manufacturing	Auto Collision Repair and Refinishing	Automotive Service Technology	Cloud Virtualization	Computer Programming
Cybersecurity	Electrician	FAA Airframe Mechanic	FAA Power Plant Mechanics	Health Sciences
Pharmacy Technician	HVAC Technician	Network Support Services	Public Safety	Welding

Source: General Appropriations Act, 2019.

Rubric for Adding 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 Industry Certifications

Summary — Over 200 types of specific industry certifications within the 15 occupational areas are approved for funding[1]

Year	Certifications
2017-18	231
2016-17	219
2015-16	219
2014-15	193
2013-14	152

The list of approved fundable industry certifications has grown from 152 in 2013-14 to 231 in 2017-18
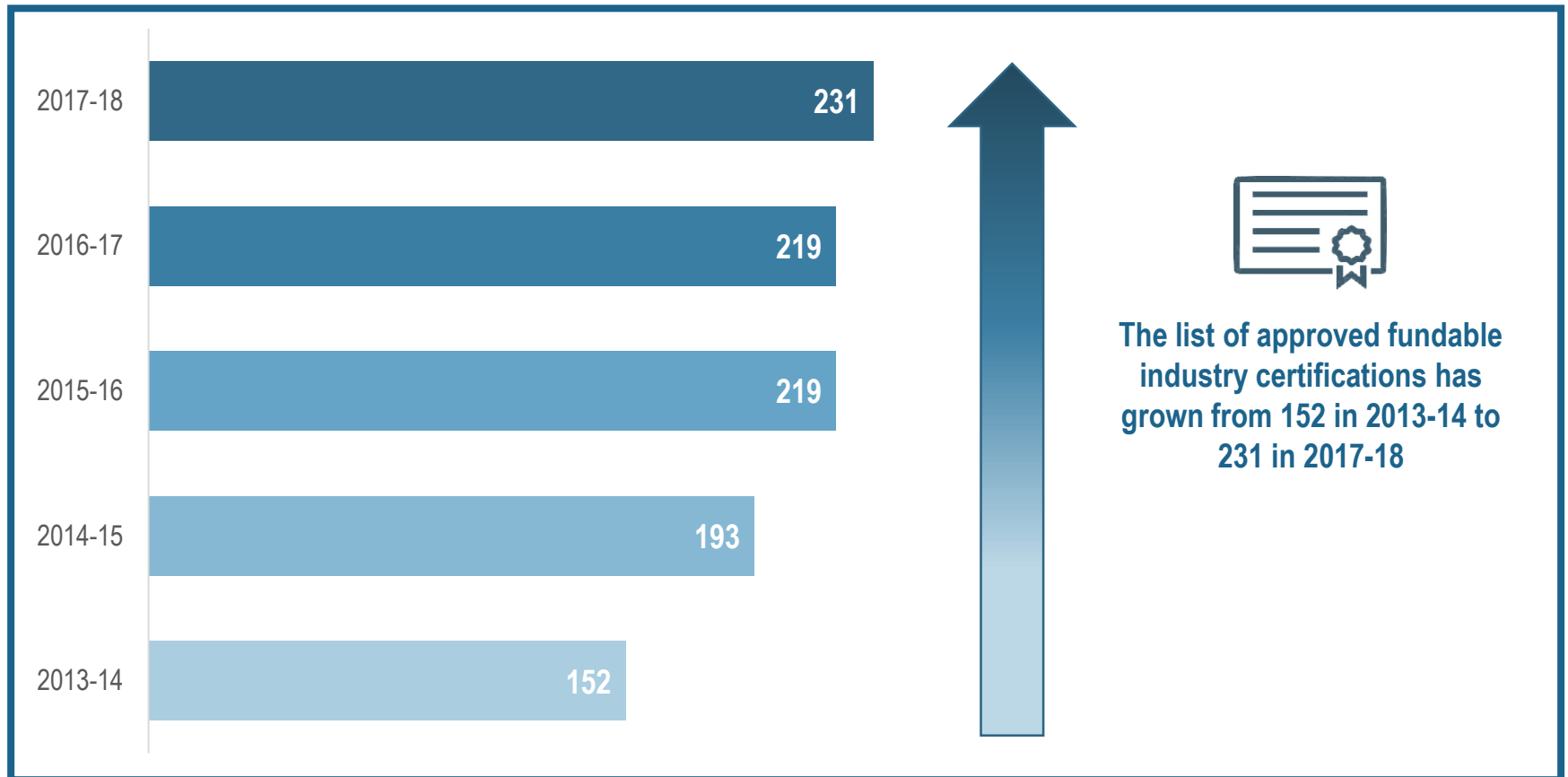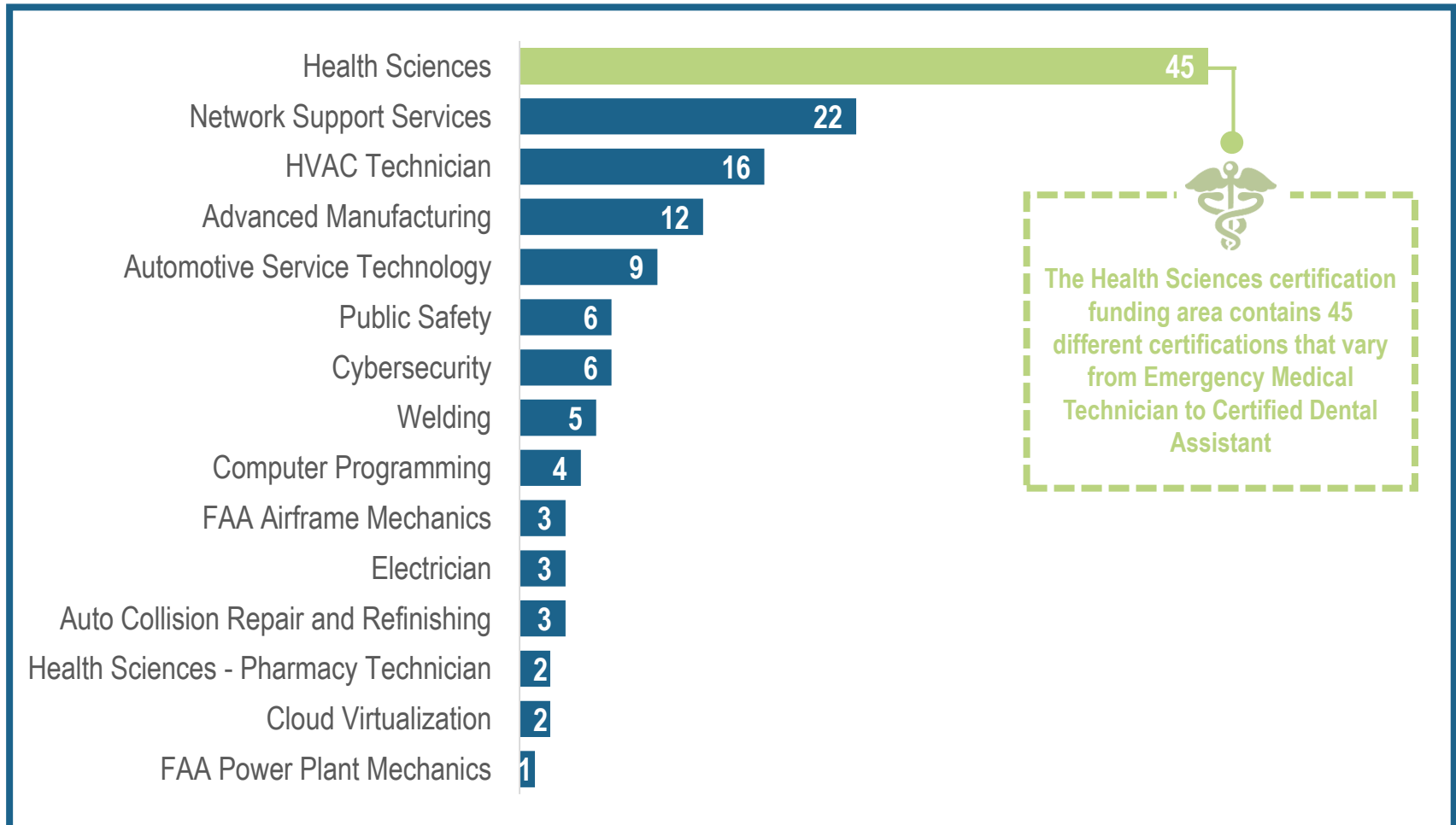
[1] Over time, industry certifications have been added and removed. Overall, 259 different certifications have been eligible for Florida College System funding even though, at most, only 231 certifications were approved in any given year.

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

Individual Certification Types Within Each Occupational Funding Area

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

Occupational Funding Area	Number of Certification Types
Health Sciences	45
Network Support Services	22
HVAC Technician	16
Advanced Manufacturing	12
Automotive Service Technology	9
Public Safety	6
Cybersecurity	6
Welding	5
Computer Programming	4
FAA Airframe Mechanics	3
Electrician	3
Auto Collision Repair and Refinishing	3
Health Sciences - Pharmacy Technician	2
Cloud Virtualization	2
FAA Power Plant Mechanics	1

The Health Sciences certification funding area contains 45 different certifications that vary from Emergency Medical Technician to Certified Dental Assistant

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

Funded Industry Certifications Earned by College Students

Summary The number of funded postsecondary industry certifications earned by college students has increased substantially since 2013-14[1]

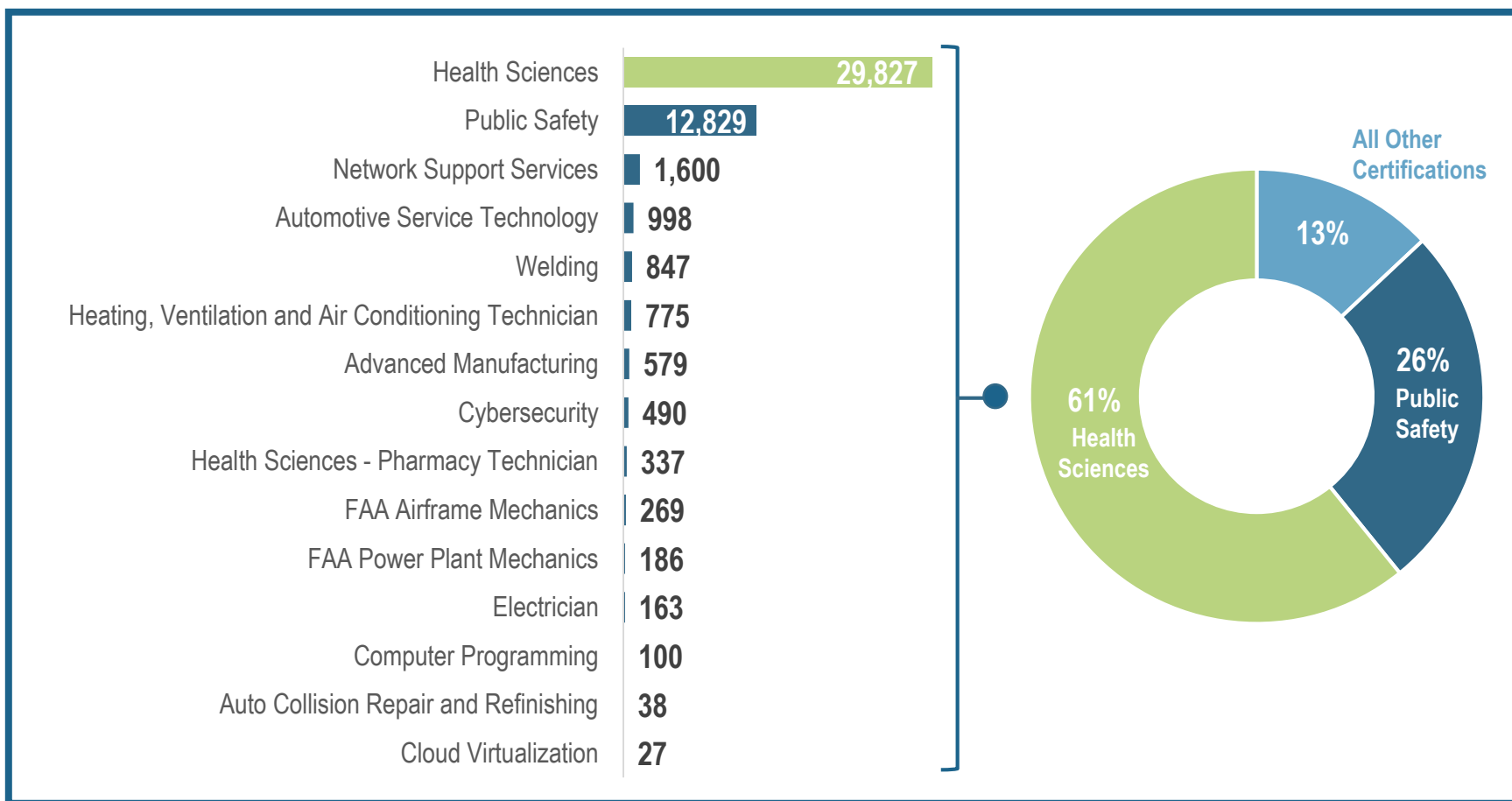| Year	Certifications
2017-18	15,654
2016-17	12,315
2015-16	11,272
2014-15	8,633
2013-14	1,191

An increase of 14,463 certifications
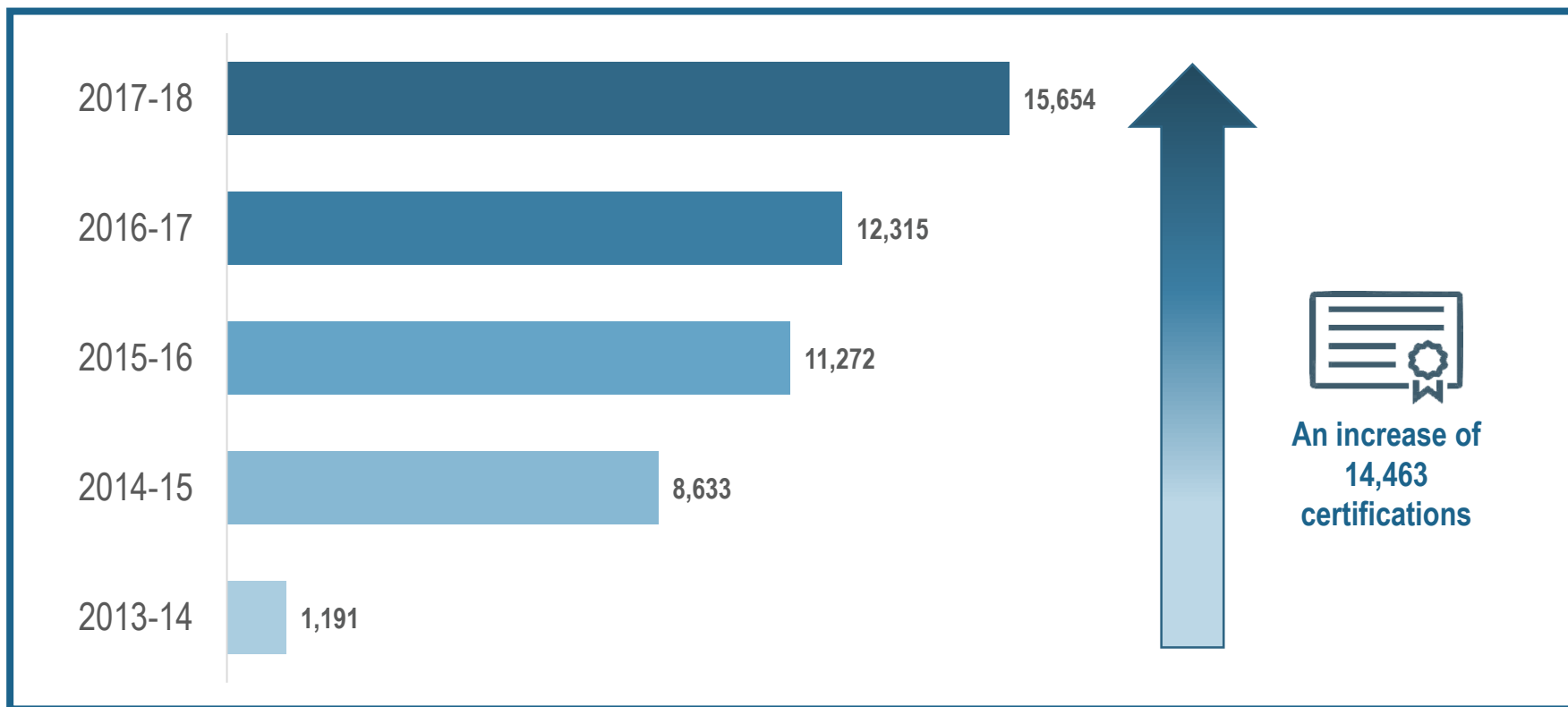
[1] The figures above reflect the number of certifications earned in each year. These figures will differ from Florida Department of Education college funding reports, which include the number of certifications funded each year, and funding may be lagged.

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

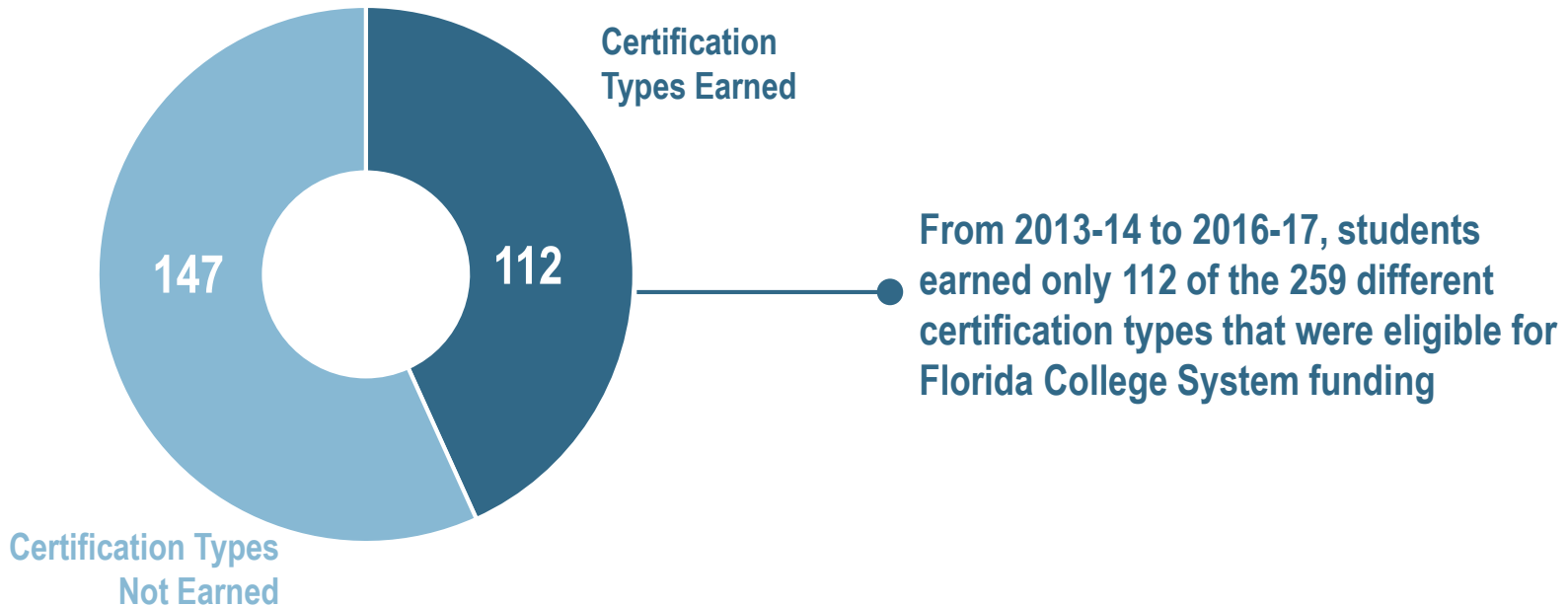# Industry Certifications Earned by Occupational Funding Area

Summary From 2013-14 to 2016-17, 87% of the funded certifications earned by college students were in the Health Sciences and Public Safety occupational funding areas

Funding Area	Certifications
Health Sciences	29,827
Public Safety	12,829
Network Support Services	1,600
Automotive Service Technology	998
Welding	847
Heating, Ventilation and Air Conditioning Technician	775
Advanced Manufacturing	579
Cybersecurity	490
Health Sciences - Pharmacy Technician	337
FAA Airframe Mechanics	269
FAA Power Plant Mechanics	186
Electrician	163
Computer Programming	100
Auto Collision Repair and Refinishing	38
Cloud Virtualization	27

All Other Certifications 13%

26% Public Safety

61% Health Sciences

Industry Certifications Earned by College Students

Summary From 2013-14 to 2016-17, college students earned certifications representing fewer than half of the 259 certification types approved for funding[1]

Certification Types Earned

147

112

Certification Types Not Earned

From 2013-14 to 2016-17, students earned only 112 of the 259 different certification types that were eligible for Florida College System funding

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, 259 different certifications have been eligible for Florida College System funding even though, at most, only 219 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

✓ 83 occupations are on this statewide list, 38 of which are classified as HSHW
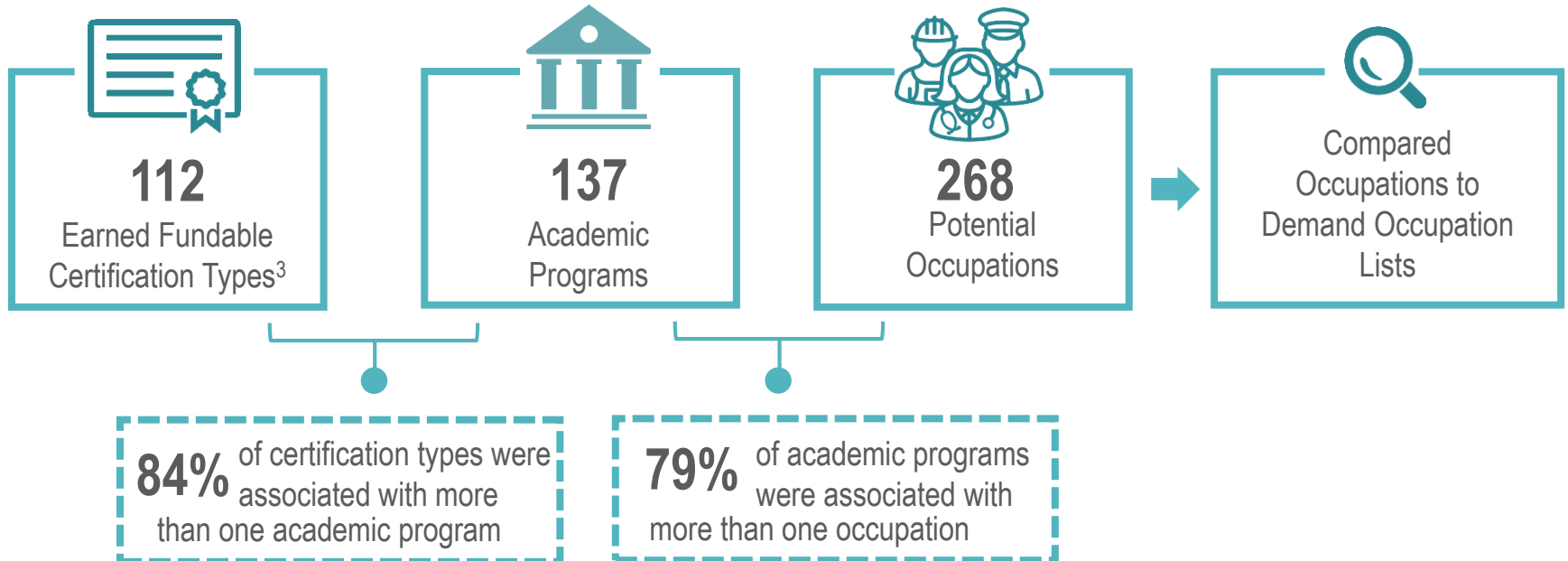
46% HSHW

Total Occupations (83)
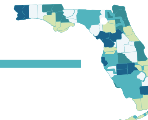
Criteria for 24 Regional Lists

✓ 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]

112 — Earned Fundable Certification Types[3]

137 — Academic Programs

268 — Potential Occupations

Compared Occupations to Demand Occupation Lists

84% of certification types were associated with more than one academic program

79% 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 Florida College System program.
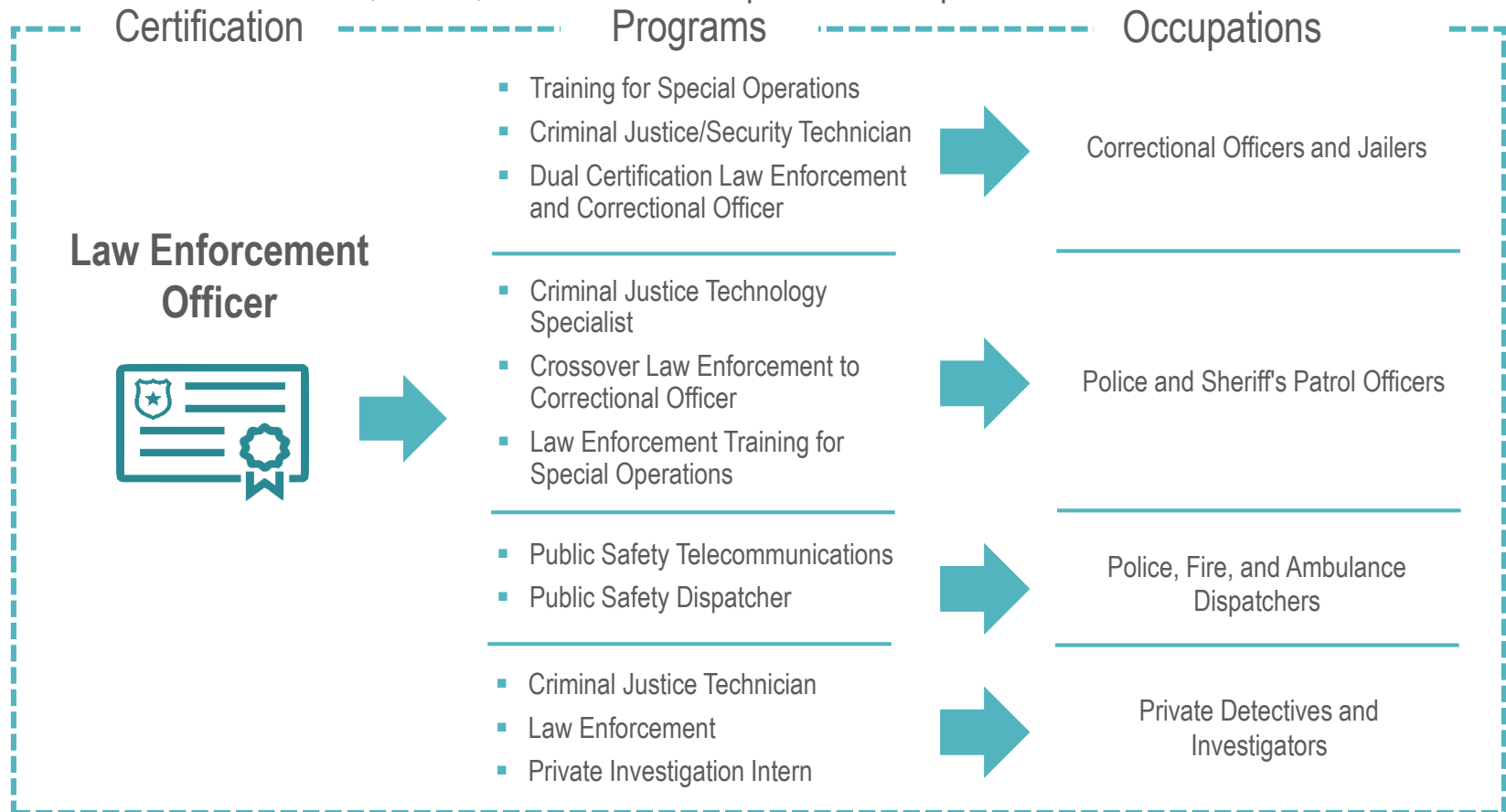
[2] To match programs to occupations, we used a crosswalk managed by the Florida Department of Education and referred to as the "CIPxSOC Table."

[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 funding 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 11 different programs that are, in turn, associated with 4 possible occupations[1]

Certification	Programs	Occupations
Law Enforcement Officer	• Training for Special Operations • Criminal Justice/Security Technician • Dual Certification Law Enforcement and Correctional Officer	Correctional Officers and Jailers
	• Criminal Justice Technology Specialist • Crossover Law Enforcement to Correctional Officer • Law Enforcement Training for Special Operations	Police and Sheriff's Patrol Officers
	• Public Safety Telecommunications • Public Safety Dispatcher	Police, Fire, and Ambulance Dispatchers
	• Criminal Justice Technician • Law Enforcement • Private Investigation Intern	Private Detectives and Investigators

Note: This is an example and not a complete list of all programs and occupations associated with this certification.

[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: Florida Department of Education.

Certification Linkages to HSHW Occupations on the Statewide Demand Occupations List

Summary Most (90%) earned fundable industry certification types are linked to at least one statewide HSHW occupation; Auto Collision Repair and Refinishing certifications are linked to none

90% of the 112 earned fundable certification types are linked to at least one HSHW occupation on the Statewide Demand Occupations List

24% of all 268 occupations linked to certifications were HSHW occupations on the Statewide Demand Occupations List
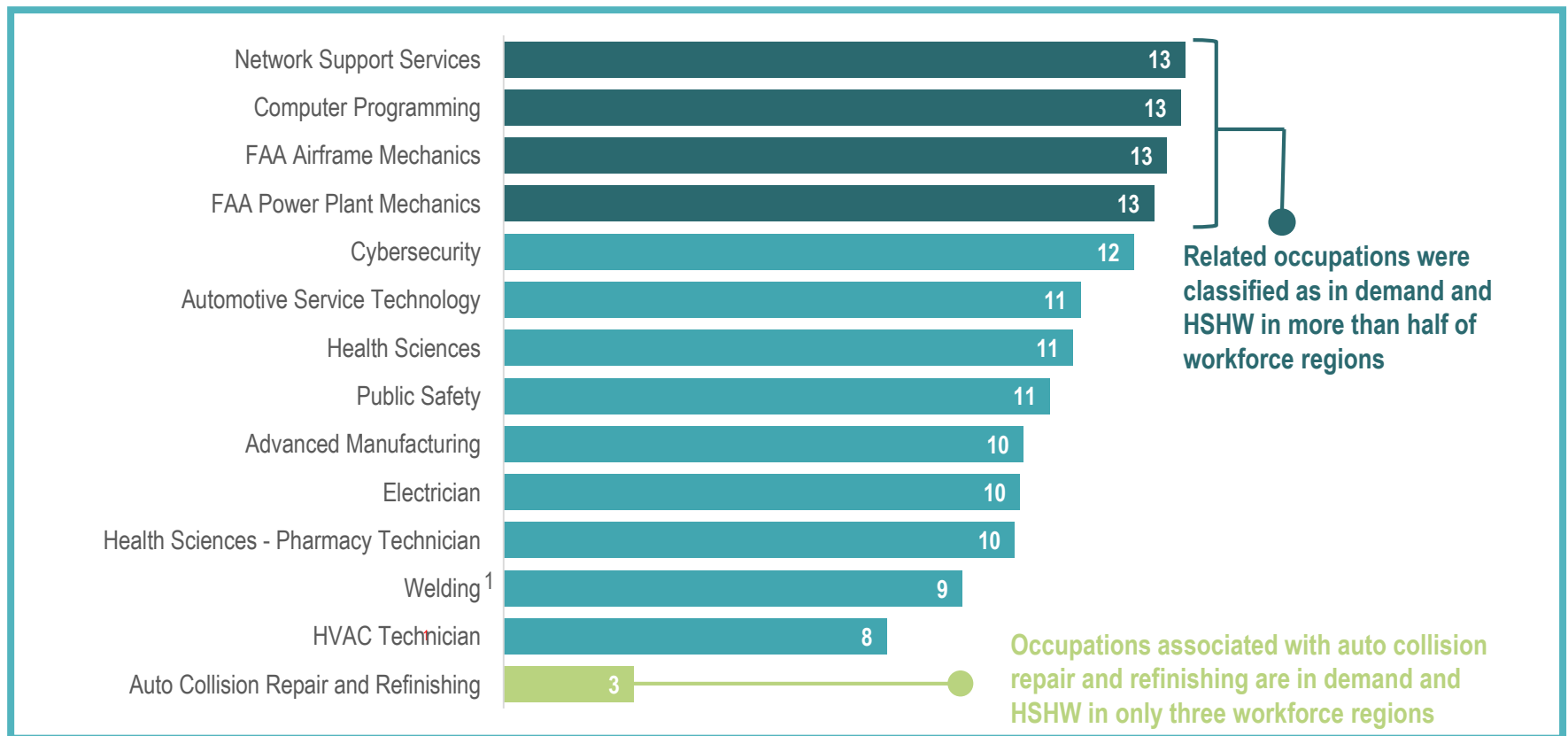
None of the 34 certifications in the Auto Collision Repair and Refinishing Occupation Area are linked to a statewide HSHW occupation

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 11 of the 14 occupational funding areas, industry certifications were linked to HSHW occupations in 10 or more of the 24 workforce regions

Occupation	Value
Network Support Services	13
Computer Programming	13
FAA Airframe Mechanics	13
FAA Power Plant Mechanics	13
Cybersecurity	12
Automotive Service Technology	11
Health Sciences	11
Public Safety	11
Advanced Manufacturing	10
Electrician	10
Health Sciences - Pharmacy Technician	10
Welding [1]	9
HVAC Technician	8
Auto Collision Repair and Refinishing	3

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

Occupations associated with auto collision repair and refinishing are in demand and HSHW in only three workforce regions

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

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 Four HSHW occupations on the Statewide Demand Occupation List had no reported fundable certifications associated with them[1]

Purchasing Agent

Cost Estimator

Loan Officer

Construction and Building Inspector

[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.
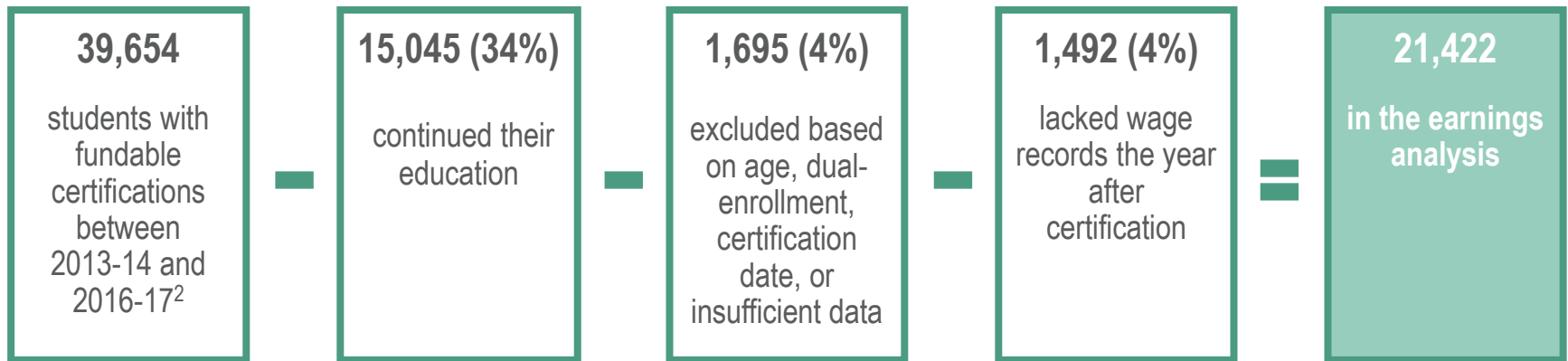
Employment and Earnings of Certification Earners

Earnings Analysis Sample and Method

Methodology

We examined post-certification earnings for 21,422 students who completed programs or exited the college system 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 a 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]

| **39,654**

students with fundable certifications between 2013-14 and 2016-17[2] | − | **15,045 (34%)**

continued their education | − | **1,695 (4%)**

excluded based on age, dual-enrollment, certification date, or insufficient data | − | **1,492 (4%)**

lacked wage records the year after certification | = | **21,422**
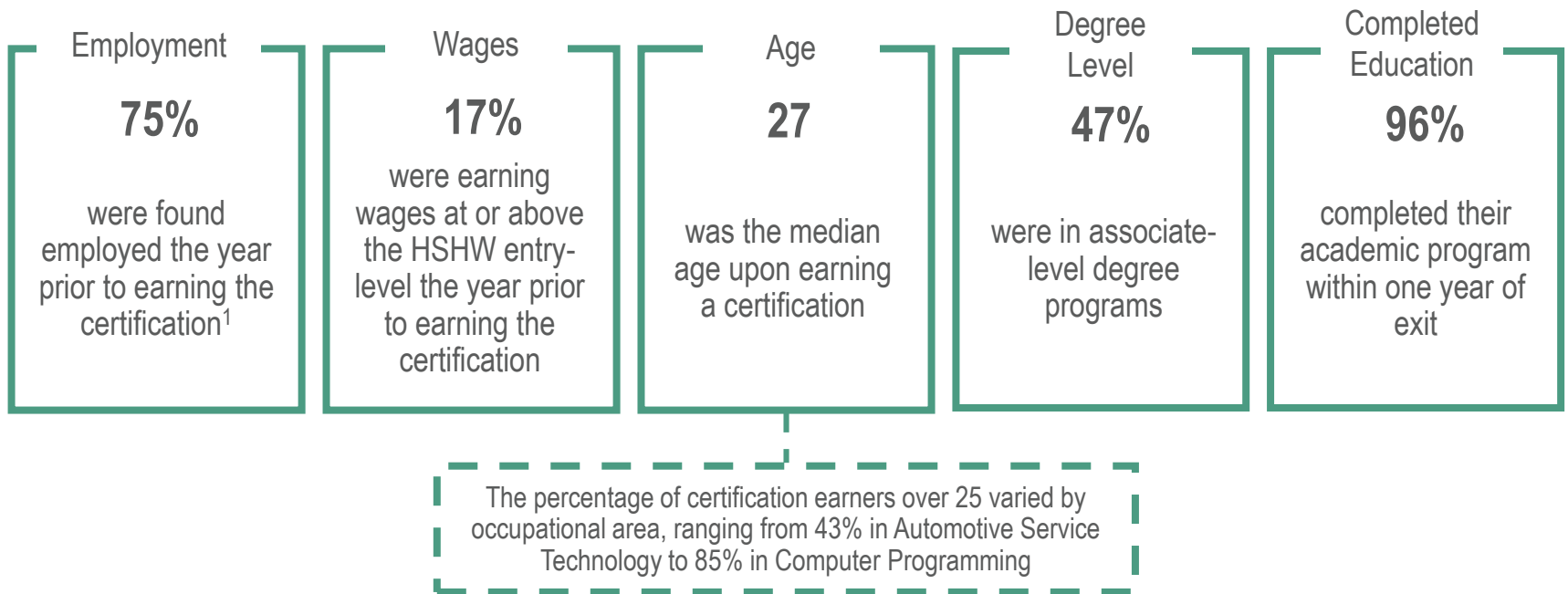
in the earnings analysis |

[1] We counted earnings of the first four quarters after the student exited the Florida College System 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 course 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 funding 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 — 75% of certification recipients were employed prior to receiving the certification; 17% were already earning at least entry-level HSHW earnings

Employment	Wages	Age	Degree Level	Completed Education
75%	**17%**	**27**	**47%**	**96%**
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 associate-level degree programs	completed their academic program within one year of exit

The percentage of certification earners over 25 varied by occupational area, ranging from 43% in Automotive Service Technology to 85% in Computer Programming

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 63% 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

- **98%** were found employed the year after certification
- **63%** of those employed were earning HSHW entry-level earnings[1]

n = 17,641

Mid-Career Earnings

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

- **99%** were found employed the year after certification
- Average annual earnings increased from **$42,000** to **$49,000** [2]
- **77%** experienced earnings increases

n = 3,781

[1] The entry-level HSHW earnings threshold was between $13.07 (2012-13) and $14.72 (2018-19) for the years we reviewed.
[2] Post-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

- **94%** were found employed the following year
- **69%** earned wages at or above the entry-level HSHW threshold
- **$17.56** was their median initial hourly earnings

n = 20,492

Earnings of Non-Completers

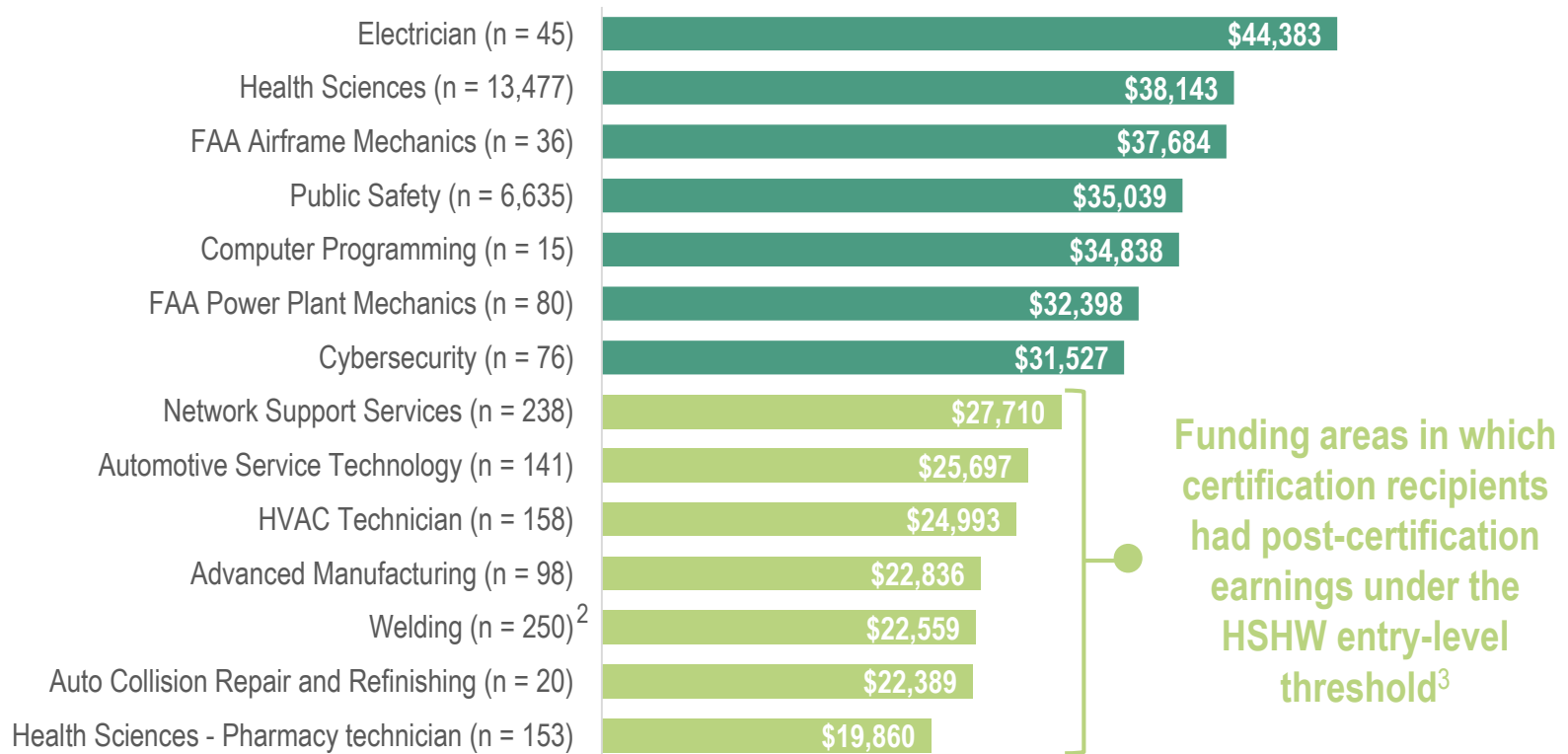Among students who earned a fundable certification but did not complete their academic program

- **90%** were found employed
- **59%** earned wages at or above the entry-level HSHW threshold
- **$15.89** was their median initial hourly earnings

n = 930

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

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; seven areas had median earnings under the HSHW entry-level threshold[1]

Funding Area	Median Earnings
Electrician (n = 45)	$44,383
Health Sciences (n = 13,477)	$38,143
FAA Airframe Mechanics (n = 36)	$37,684
Public Safety (n = 6,635)	$35,039
Computer Programming (n = 15)	$34,838
FAA Power Plant Mechanics (n = 80)	$32,398
Cybersecurity (n = 76)	$31,527
Network Support Services (n = 238)	$27,710
Automotive Service Technology (n = 141)	$25,697
HVAC Technician (n = 158)	$24,993
Advanced Manufacturing (n = 98)	$22,836
Welding (n = 250)[2]	$22,559
Auto Collision Repair and Refinishing (n = 20)	$22,389
Health Sciences - Pharmacy technician (n = 153)	$19,860

Funding areas in which certification recipients had post-certification earnings under the HSHW entry-level threshold[3]

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

[3] The HSHW threshold ranged by funding area from $28,288 to $29,224.

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	Manufacturing Skill Standards Council Certified Production Technician	450
	National Institute for Metalworking Skills Machining Level I Computer Numerical Control Milling: Programming Set Up & Operations	64
	Computer Numerical Control Production Specialist	18
	Quality Improvement Associate	15
	National Institute for Metalworking Skills Machining Level I Computer Numerical Control Turning: Programming Set Up & Operations	11
	Certified Solidworks Professional - Academic	9
	National Institute for Metalworking Skills Machining Level II - Computer Numerical Control Milling Skills II	4
	National Institute for Metalworking Skills Machining Level II - Computer Numerical Control Turning Skills II	3
	National Institute for Metalworking Skills Machining Level II - Manual Milling Skills II	2
	Mastercam Associate Certification - Mill Design and Toolpaths	1
	Certified Control Systems Technician - Level 1	1
	National Institute for Metalworking Skills Manual Turning - Between Centers	1
	Total	579
Auto Collision Repair and Refinishing	Automotive Service Excellence - Painting and Refinishing	20
	Automotive Service Excellence - Non-structural Analysis and Damage Repair	15
	Automotive Service Excellence - Structural Analysis and Damage Repair	3
	Total	38

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	236
	Automotive Service Excellence - Electrical/Electronic Systems	211
	Automotive Service Excellence - Suspension and Steering	142
	Automotive Service Excellence - Engine Repair	111
	Automotive Service Excellence - Heating and Air Conditioning	110
	Automotive Service Excellence - Manual Drive Train and Axles	81
	Automotive Service Excellence - Engine Performance	57
	Automotive Service Excellence - Automatic Transmission/Transaxle	40
	Automotive Service Excellence - Advanced Engine Performance Specialist	10
	Total	998
Cloud Virtualization	CompTIA Cloud+	14
	VMware Certified Professional - vSphere	13
	Total	27
Computer Programming	Certified Internet Web JavaScript Specialist	79
	Oracle Certified Associate: Java Programmer	8
	Certified Internet Web Advanced HTML5 & CSS3 Specialist	7
	Certified Internet Web Design Specialist	6
	Total	100

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

Funding Area	Certification Title	Certifications Earned[1]
Cybersecurity	CompTIA Security+	462
	Certified Ethical Hacker	11
	Cisco Certified Network Associate Security	9
	CompTIA CSA+	4
	Systems Security Certified Practitioner	3
	Certified Information Systems Security Management Professional	1
	Total	490
Electrician	Journeyman Electrician	75
	Marine Electrical Certification	44
	National Center for Construction Education and Research Electrical - Level 4 (Postsecondary)	44
	Total	163
Federal Aviation Administration Airframe Mechanics	Federal Aviation Administration Aviation Mechanic Technician - Airframe	165
	Federal Aviation Administration Aviation Maintenance Technician - General	101
	Aircraft Electronics Technician	3
	Total	269
Federal Aviation Administration Power Plant Mechanics	Federal Aviation Administration Aviation Maintenance Technician - Powerplant	186
	Total	186

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

Funding Area	Certification Title	Certifications Earned[1]
Health Sciences	National Licensed Registered Nurse	13,940
	Emergency Medical Technician	4,790
	Paramedic	2,755
	National Licensed Practical Nurse	1,440
	Registered Technologist	1,034
	Licensed Physical Therapist Assistant	773
	Licensed Dental Hygienist	712
	Certified Nursing Assistant	692
	Registered Respiratory Therapist	576
	Certified Respiratory Therapist	515
	Certified Dental Assistant	423
	Certified Surgical Technologist	378
	Registered Diagnostic Medical Sonographer	230
	Certified Medical Assistant	185
	Licensed Optician	157
	Registered Health Information Technician	153
	Registered Cardiovascular Invasive Specialist	138
	Registered Technologist (Nuclear Medicine)	121
	Certified Nuclear Medicine Technologist	102
	Registered Technologist (Radiation Therapy)	101
	Radiologic Technologist (Sonography)	93
	Registered Medical Assistant	91
	Certified Occupational Therapy Assistant	82

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

Funding Area	Certification Title	Certifications Earned[1]
Health Sciences (Continued)	Certified Patient Care Technician	50
	Certified EKG Technician	40
	Certified Coding Associate	37
	Registered Cardiac Sonographer	30
	Certified Coding Specialist	29
	Computed Tomography	28
	Medical Laboratory Technician	24
	Certified Professional Coder	19
	Registered Technologist - Quality Management	18
	Medical Laboratory Technician	17
	Registered Vascular Specialist	13
	Registered Diagnostic Cardiac Sonographer	11
	Medical Laboratory Technician	9
	Dietetic Technician, Registered	6
	Certified Clinical Medical Assistant	4
	Certified Prosthetic-Orthotic Technician	3
	Certified Biomedical Equipment Technician	2
	Registered Vascular Technologist	2
	Certified Healthcare Documentation Specialist	1
	Certified Coding Specialist - Physician-based	1
	Certified Healthcare Technology Specialist - Implementation Manager	1
	Certified Healthcare Technology Specialist - Practice Workflow & Information Management Redesign Specialist	1
	Total	29,827

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	330
	Certified Pharmacy Technician	7
	Total	337
HVAC Technician	Heating, Ventilation, and Air Conditioning Excellence Employment Ready - Air Conditioning	198
	National Center for Construction Education and Research Electrical Heating, Ventilation, and Air Conditioning - Level 4 (Postsecondary)	122
	Heating, Ventilation, and Air Conditioning Excellence Employment Ready - Heat Pump	112
	Heating, Ventilation, and Air Conditioning Excellence Employment Ready - Electrical	64
	Heating, Ventilation, and Air Conditioning Excellence Employment Ready - Light Commercial Refrigeration	48
	Heating, Ventilation, and Air Conditioning Excellence Employment Ready - Gas Heat	38
	Heating, Ventilation, and Air Conditioning Excellence Employment Ready - Light Commercial Air Conditioning	30
	National Center for Construction Education and Research Electrical Heating, Ventilation, and Air Conditioning Excellence - Level 4	27
	Heating, Ventilation, and Air Conditioning Excellence Employment Ready - Electric Heat	22
	National Center for Construction Education and Research Electrical Heating, Ventilation, and Air Conditioning - Level 3	21
	Air Conditioning Refrigeration Certification	18
	National Center for Construction Education and Research Electrical Heating, Ventilation, and Air Conditioning - Level 2	18
	Air Conditioning Installation Specialization	17
	Air to Air Heat Pump Installation Technician	15
	Air to Air Heat Pump Service Technician	13
	Air Conditioning Service Technician	12
	Total	775

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+	832
	CompTIA Network+	392
	Cisco Certified Network Associate	132
	CompTIA Project+	90
	Certified Internet Web Database Design Specialist	42
	Associate Certified Electronics Technician	21
	Cisco Certified Network Associate Routing and Switching	19
	CompTIA Linux+	18
	Microsoft Certified Solutions Associate - SQL Server 2012	11
	Microsoft Certified Solutions Associate - Windows Server 2012	10
	CompTIA CDIA+	7
	Cisco Certified Network Professional	4
	Microsoft Certified Solutions Expert - Server Infrastructure	4
	Cisco Certified Internetwork Expert Routing and Switching	3
	Cisco Certified Design Associate	2
	CompTIA Server+	2
	Information Storage and Management Associate	2
	Microsoft Certified Solutions Associate - Windows 7	2
	Microsoft Certified Solutions Associate - Windows Server 2008	2
	Microsoft Certified Solutions Expert - Desktop Infrastructure	2
	Certified Internet Web E-Commerce Specialist	2
	Microsoft Certified Solutions Associate - Windows 8	1
	Total	1,600

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

Funding Area	Certification Title	Certifications Earned[1]
Public safety	Law Enforcement Officer	6,926
	Fire Fighter II	2,841
	Correctional Officer	2,604
	Correctional Probation Officer	452
	911 Public Safety Telecommunicator	5
	Fire Safety Inspector I	1
	Total	12,829
Welding	Certified Welder	518
	National Center for Construction Education and Research Welding - Level 3 (Postsecondary)	193
	National Center for Construction Education and Research Welder - Level 1	80
	National Center for Construction Education and Research Welding - Level 2 (Secondary)	47
	National Center for Construction Education and Research Welder - Level 3	9
	Total	847

[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.

Visit OPPAGA's website at www.oppaga.state.fl.us.

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