

ASSESSMENT DAY

Mary Karl College of Workforce and Continuing Education
School of Occupational Apprenticeships
Plumber and Pipefitter Apprentice
February 17, 2022

Strengths

Challenges

Recommendations

Academic Assessment

	LEVEL	FOCUS	CONDUCTED BY	FREQUENCY
Academic Success Committee	Program	<ul style="list-style-type: none"> Quality of assessment practices 	Committee of peers	Years 1 & 2
Instructional Program Review	Program / Cluster	<ul style="list-style-type: none"> Enrollment, retention, completion Industry certifications and job placement Program budget and staffing Advisory committees Curriculum changes 	Committee of peers	Year 3
Assessment Day	Course/ Program	<ul style="list-style-type: none"> Enrollment by demographics Graduation and retention Average class size Course success rate Placement rate SLOs, PLOs and ILOs 	Program Chair and Faculty	Years 1, 2, 3

Programs

[1070 - Plumbers and Pipefitter Apprentice - Union](#)

Occupational Apprenticeship: Plumbers & Pipefitters

Last Assessment Day Action Items

Last Assessment Day (11-05-2020)

- Planning to implement the Math Boot Camp next year;
- Participate in National Apprenticeship Week, and bring recognition to the program, posters to attract female students (virtually like this year, or in person if possible);
- Planning to attend Apprenticeship Day, April 1st in Tallahassee;
- Planning to attend the Trades Women Build Nations conference (virtually or in person, if possible);
- Continue to work with marketing for outreach and recruitment, including other cohorts of students at the college such as the MyTechHire students
- **For IE:** List of students with persistence score from Civitas

Plumbers and Pipefitter Apprentice #1070 Program Learning Outcomes

Graduates of the program will be able to:

PLO 1: Demonstrate the ability to follow rules, building codes, and all state and federal safety regulations.

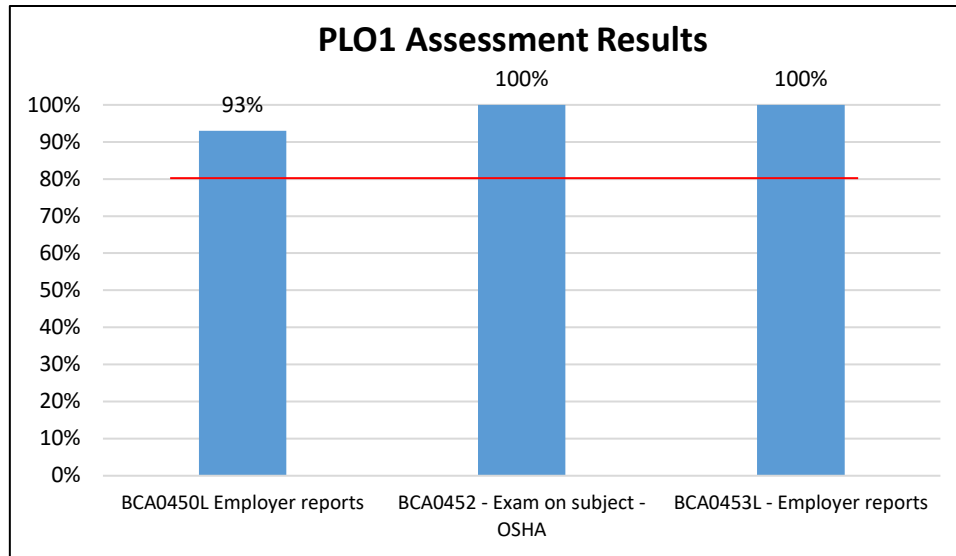
PLO 2: Demonstrate proper usage of different tools, equipment, materials and products used in the trade.

PLO 3: Demonstrate knowledge in all aspects of the industry including but not limited to theory, application, troubleshooting and safety.

PLO 4: Demonstrate skills in the residential, commercial and industrial markets.

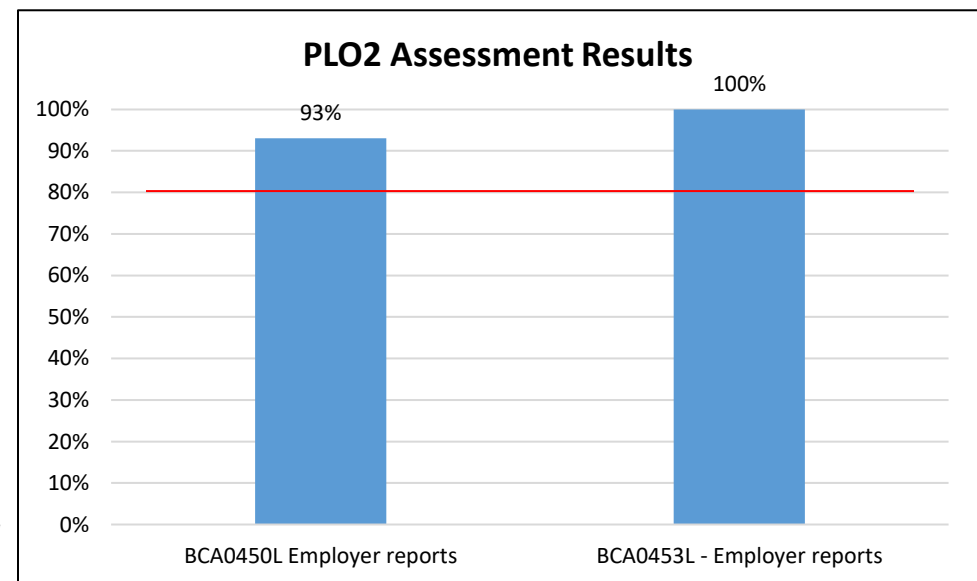
PLO 5: Demonstrate the ability to develop and implement projects related to the field.

Assessment Results 2020-2021

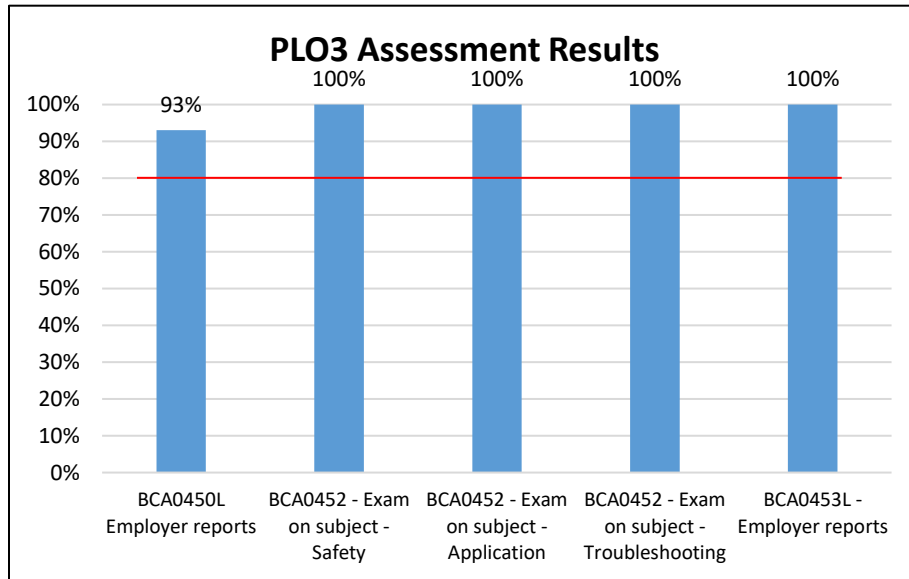


PLO1: Demonstrate the ability to follow rules, building codes, and all state and federal safety regulations. *80% of student will pass the OSHA. 80% of students will achieve satisfactory employer reports.*

PLO2: Demonstrate proper usage of different tools, equipment, materials and products used in the trade. *Target: 80% of students will achieve satisfactory employer reports.*

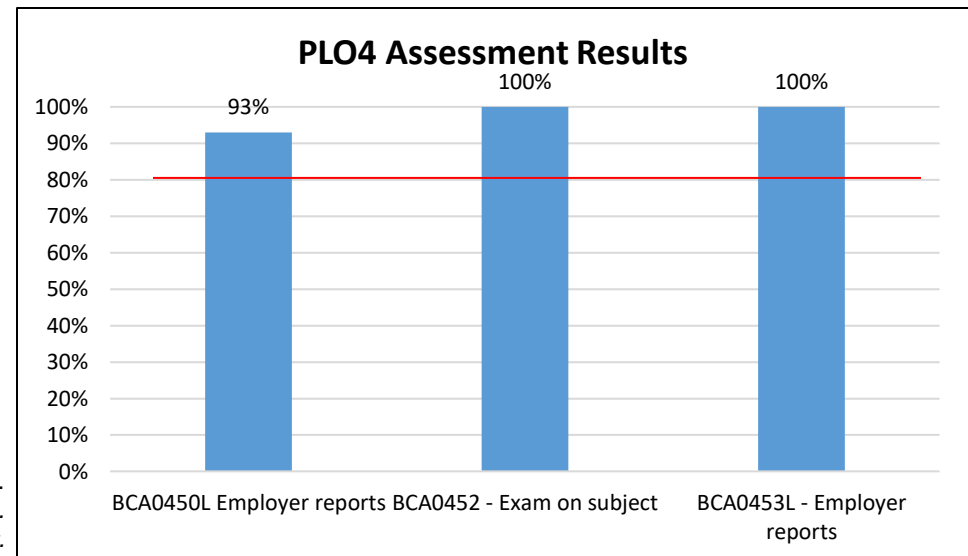


Assessment Results 2020-2021

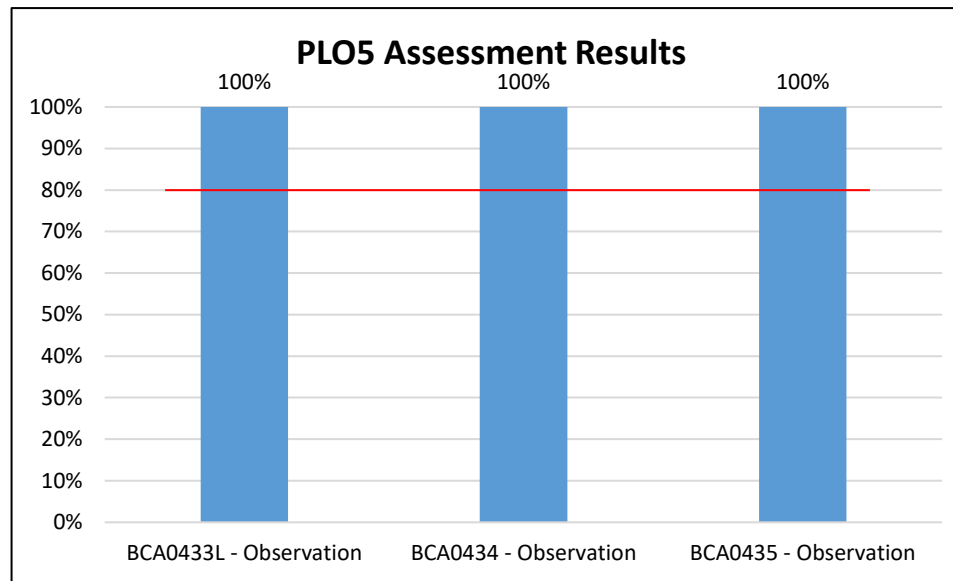


PLO3: Demonstrate knowledge in all aspects of the industry including but not limited to theory, application, troubleshooting and safety. *Target: 80% of students will achieve satisfactory employer reports. 80% of student will pass exam on subject.*

PLO4 Demonstrate skills in the residential, commercial and industrial markets.
*Target: 80% of students will achieve satisfactory employer reports.
 80% of student will pass exam on subject.*



Assessment Results 2020-2021

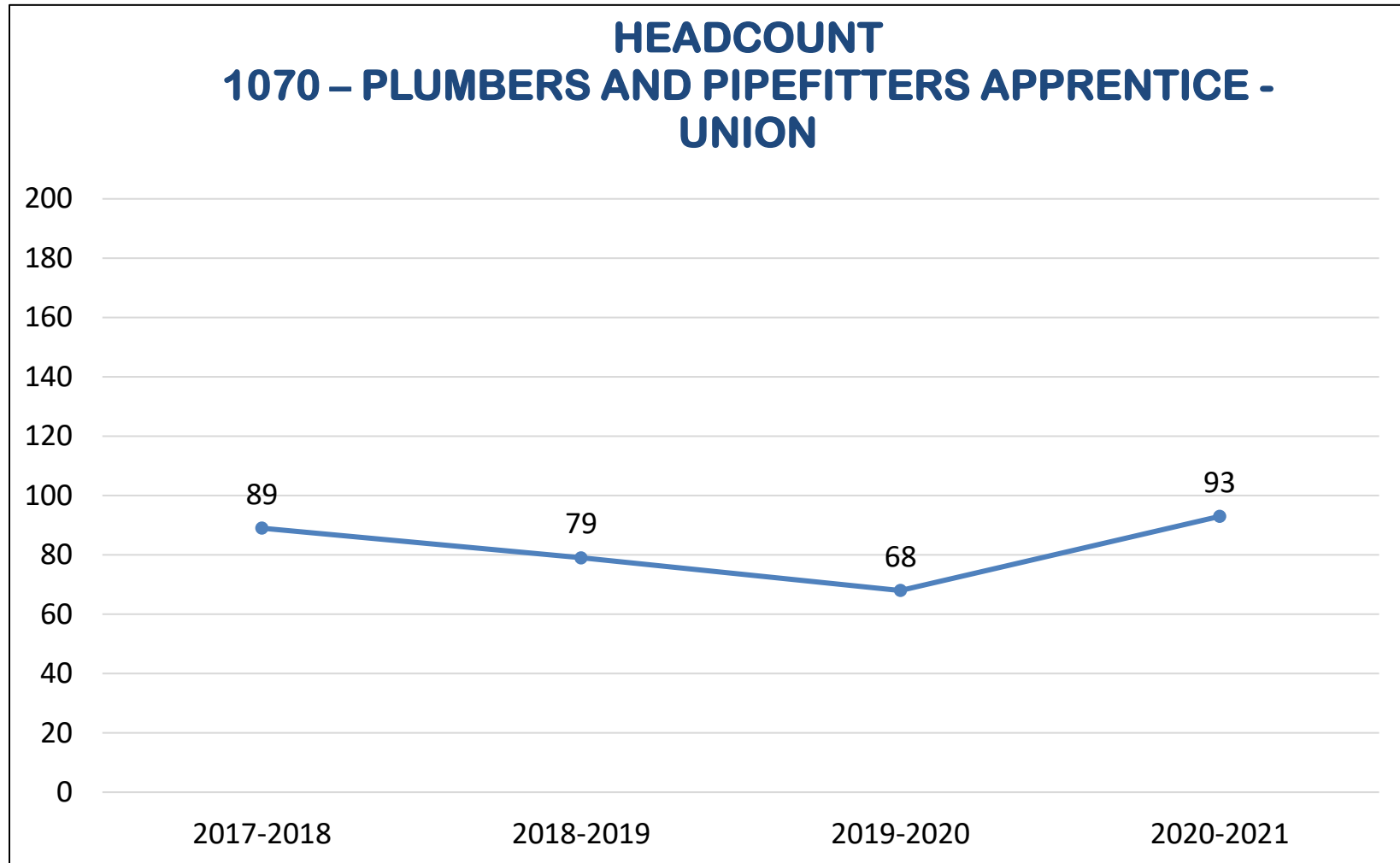


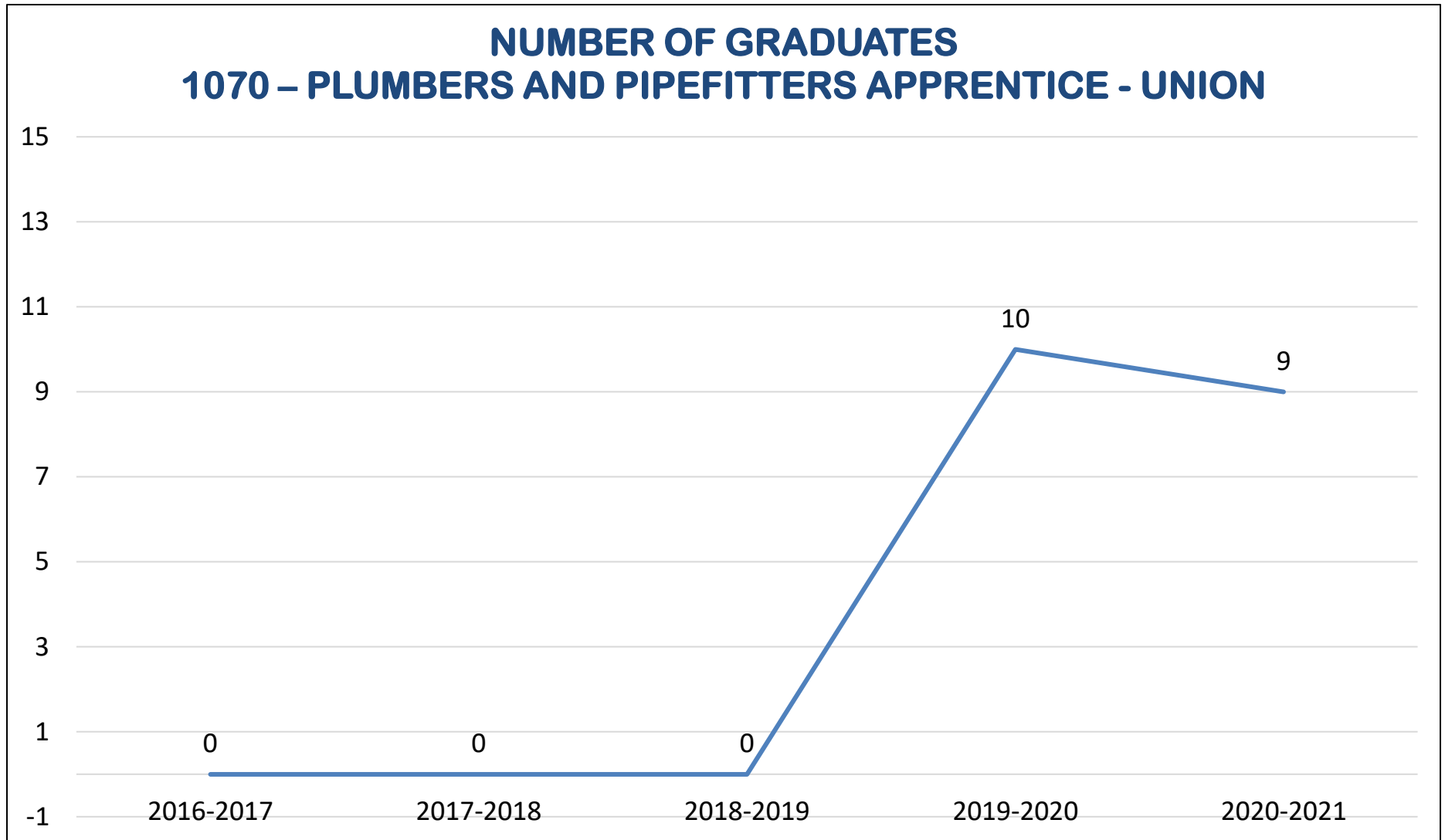
PLO5: Demonstrate the ability to develop and implement projects related to the field.
Target: 80% of students will achieve 80% or higher in all assessment measures

Assessment Data

Program vs. Institutional Learning Outcomes

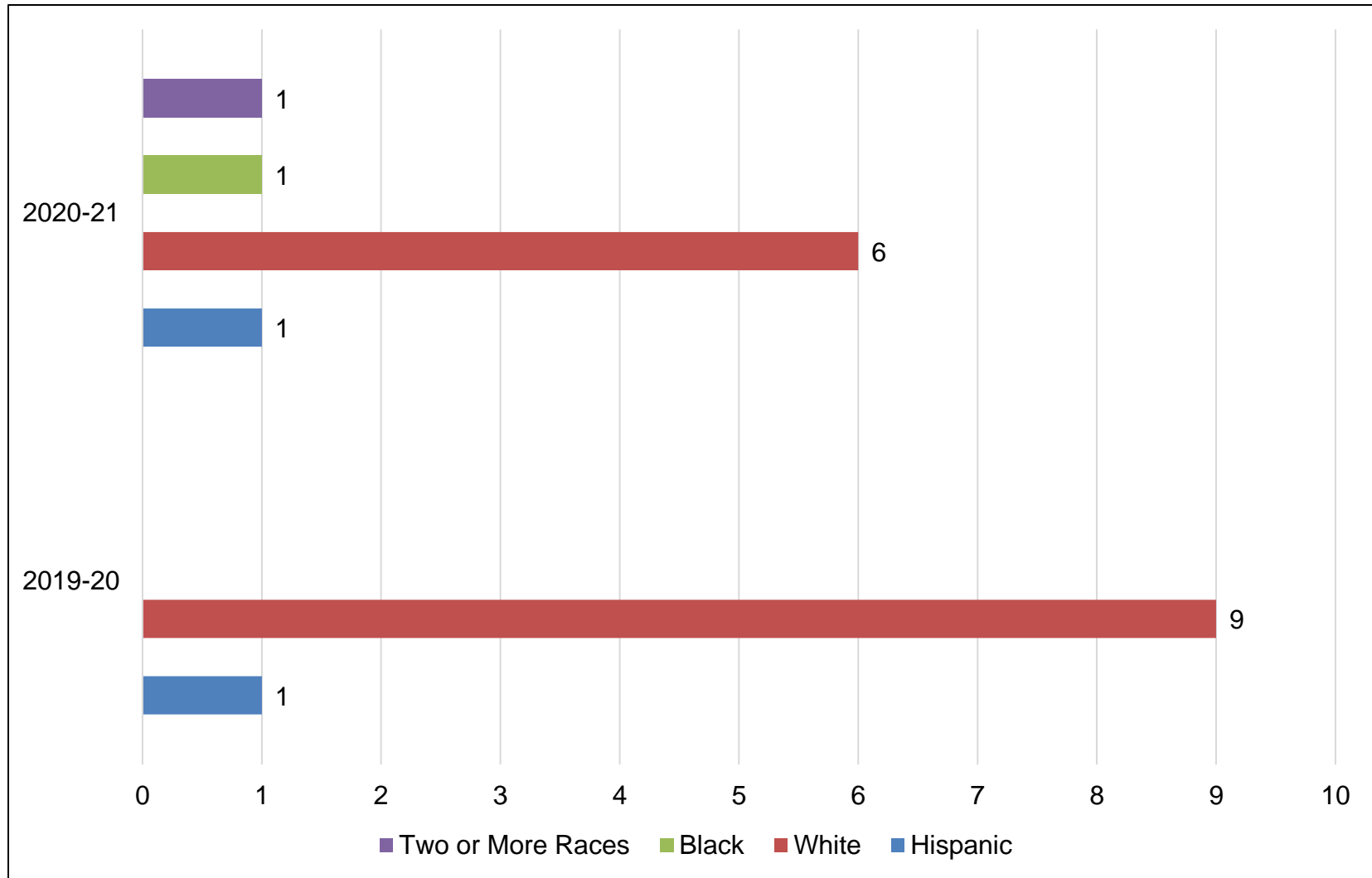
Program	Critical/ Creative Thinking		Communication		Cultural Literacy		Information and Technical Literacy	
	19/20	20/21	19/20	20/21	19/20	20/21	19/20	20/21
1070 – PLUMBERS AND PIPEFITTERS APPRENTICE - UNION	100%	93%-100%	100%	93%-100%	100%	93%-100%	100%	93%-100%





Number of Graduates by Race/Ethnicity

Occupational Apprenticeship – 1070 - Plumbers and Pipefitter Apprentice - Union



Time to Degree

Major	Average of Years to Completion (2019-2020 Graduate Cohort)	Average of Years to Completion (2020-2021 Graduate Cohort)
107000 – Plumbers and Pipefitter - Union	4.6	4.7

Retention Rates

Program and Year		Registered	Exclusions	Adjusted Cohort	Retained by DSC		Retained by Program		Total Retained
					N	%	N	%	%
1070 Plumbers and Pipefitter Apprentice - Union	2012	13	3	10	0	0%	10	100%	100%
	2013	10	4	6	0	0%	6	100%	100%
	2014	6	5	1	0	0%	0	0%	0%
	2015	25	0	25	0	0%	20	80%	80%
	2016	35	0	35	0	0%	31	89%	89%
	2017	67	0	67	1	1%	48	72%	73%
	2018	60	0	60	0	0%	45	75%	75%
	2019	52	11	41	0	0%	36	87.8%	87.8%

Registered - Includes all students enrolled in the fall term of the specified year, with the specified program as their primary major.

Exclusions - Includes students who are deceased or graduated fall of the specified year or the following spring or summer.

Not retained - Students who were not registered the following fall term.

Retained by DSC - Students who were still registered at DSC the following fall but with a different primary major.

Retained by Program - Students who were registered the following fall with the same primary major.

Source: IR Program Assessment Data

Retention Rates by Race/Ethnicity

Major	Cohort	Race/Ethnicity	Registered	Exclusions	Adjusted Cohort	Retained by Program	
						N	%
1070 Plumbers and Pipefitter Apprentice - Union	FA16 to FA17	Asian	1	0	1	0	0%
		Black	2	0	2	2	100%
		Hispanic	2	0	2	2	100%
		Two or More Races	1	0	1	1	100%
		White	27	0	27	24	89%
	FA17 to FA18	Am. Ind	1	0	1	1	100%
		Black	3	0	3	2	67%
		Hispanic	4	0	4	4	100%
		Two or More Races	1	0	1	1	100%
		Unknown	3	0	3	3	100%
		White	55	0	55*	37	67%
	FA18 to FA19	Am. Ind	1	0	1	1	100%
		Asian	1	0	1	1	100%
		Black	2	0	2	2	100%
		Hispanic	6	0	6	4	66.7%
		Two or More Races	1	0	1	1	100%
		Unknown	4	0	4	2	50%
		White	45	0	45	34	75.6%
	FA19 to FA20	Am. Ind	1	0	1	0	0%
		Asian	1	0	1	1	100%
		Black	3	1	2	2	100%
		Hispanic	5	1	4	4	100%
		Two or More Races	1	0	1	1	100%
		Unknown	2	0	2	1	50%
		White	39	9	30	27	90%

*one or more students retained by DSC

Registered - Includes all students enrolled in the fall term of the specified year, with the specified program as their primary major.

Exclusions - Includes students who are deceased or graduated fall of the specified year or the following spring or summer.

Adjusted Cohort - Registered students less exclusions.

Not retained - Students who were not registered the following fall term.

Retained by DSC - Students who were still registered at DSC the following fall but with a different primary major.

Retained by Program - Students who were registered the following fall with the same primary major.

Source: IR Program Assessment Data

Retention Rates by Gender

Major	Fall Term	Gender	Registered	Exclusions	Adjusted Cohort	Retained by Program	
						N	%
1070 Plumbers and Pipefitter Apprentice - Union	2017	Female	8	0	8	7	88%
		Male	58	0	58*	40	69%
		Unknown	1	0	1	1	100%
	2018	Female	7	0	7	5	71.4%
		Male	52	0	52	39	75%
		Unknown	1	0	1	1	100%
	2019	Female	5	1	4	3	75%
		Male	46	10	36	33	91.7%
		Unknown	1	0	1	0	0%

**one or more students retained by DSC*

Placement Rates

Program	Major	2014/15		2015/16		2016/17		2017/18		2018/19		Average Annual Salary
		DSC %	FCS %	DSC %	FCS %	DSC %	FCS %	DSC %	FCS %	DSC %	FCS %	
1070 Plumbers and Pipefitter Apprentice - Union	1070	100%	100%	100%	100%	N/A	89%	N/A	83%	N/A	N/A	N/A

Source: Florida Education Training Placement Information Program (FETPIP) :

*Currently Inactive Program

N/A - No placement data for the program.

\$**,*** Less than 10 graduates found employed.

■ Indicates the College average above the State Averages
■ Indicates the College average same as the State Averages
■ Indicates the College average below the State Averages

Course Success Rates

Major and Associated Courses		2017-2018		2018-2019		2019-2020		2020-2021	
		Attempted	% Successful	Attempted	% Successful	Attempted	% Successful	Attempted	% Successful
1070 Plumbers and Pipefitter Apprentice - Union	BCA0431	1	100%	13	100%	9	100%	16	88%
	BCA0431L	1	100%	13	100%	9	100%	14	100%
	BCA0432	17	94%	9	100%	9	100%	14	100%
	BCA0432L	16	100%	9	100%	9	100%	14	100%
	BCA0433L	1	0%			12	100%	9	100%
	BCA0434			2	50%	11	100%	9	89%
	BCA0434L					12	100%	9	89%
	BCA0435	1	100%	10	100%	9	100%	7	86%
	BCA0435L	1	100%	10	100%	9	100%	7	86%
	BCA0450L	19	89%	33	82%	7	86%	15	93%
	BCA0451	35	91%	12	58%	7	100%	35	74%
	BCA0451L	36	94%	12	58%	7	100%	32	88%
	BCA0452	22	68%	7	100%	15	100%	39	95%
	BCA0452L	33	82%	7	100%	16	100%	40	93%
	BCA0453L	12	83%	14	100%	13	100%	6	100%
	BCA0454	10	100%	24	67%			7	100%
	BCA0454L	10	100%	24	75%			7	100%
	BCA0455	16	88%	15	93%	6	100%	11	64%
	BCA0455L	15	93%	15	93%	6	100%	11	82%
	BCA0456L	21	100%	10	100%	9	100%	14	100%
	BCA0457	20	95%	10	90%	23	100%	5	100%
	BCA0457L	20	95%	10	90%	23	100%	5	100%
	BCA0458	10	100%	9	89%	14	100%	5	100%
BCA0458L	10	100%	9	100%	14	100%	5	100%	
BCA0459L	1	100%	16	100%	9	100%	9	100%	
Total	328	91%	293	88%	258	100%	345	91%	

Indicates a success rate of 90% or higher

Indicates a success rate between 70% and 89%

Indicates a success rate below 70%

Course Success Rate By Race/Ethnicity (1 of 2)

Program, Course, & Race/Ethnicity	2018-2019		2019-2020		2020-2021	
	#	% success	#	% success	#	% success
1070 - Plumbers	293	88%	258	100%	345	91%
BCA0431	13	100%	9	100%	16	88%
Black					1	100%
Hispanic	1	100%	1	100%	1	100%
Unknown					1	100%
White	11	100%	7	100%	13	85%
BCA0431L	13	100%	9	100%	14	100%
Black					1	100%
Hispanic	1	100%	1	100%	1	100%
Unknown					1	100%
White	11	100%	7	100%	11	100%
BCA0432	9	100%	9	100%	14	100%
Asian					1	100%
Black					1	100%
Hispanic					2	100%
White	7	100%	8	100%	10	100%
BCA0432L	9	100%	9	100%	14	100%
Asian					1	100%
Black					1	100%
Hispanic					2	100%
White	7	100%	8	100%	10	100%
BCA0433L			12	100%	9	100%
Black			1	100%		
Hispanic/Latino			1	100%	1	100%
Two or More Races					1	100%
White			9	100%	7	100%
BCA0434	2	50%	11	100%	9	89%
Black			1	100%	1	100%
Hispanic/Latino			1	100%	1	100%
White			9	100%	7	86%
BCA0434L			12	100%	9	89%
Black			1	100%		
Hispanic/Latino			1	100%	1	100%
Two or More Races					1	100%
White			9	100%	7	86%
BCA0435	10	100%	9	100%	7	86%
Hispanic	1	100%	1	100%		
Unknown					1	100%
White	9	100%	7	100%	6	83%

Program, Course, & Race/Ethnicity	2018-2019		2019-2020		2020-2021	
	#	% success	#	% success	#	% success
BCA0435L	10	100%	9	100%	7	86%
Hispanic			1	100%		
Unknown					1	100%
White	9	100%	7	100%	6	83%
BCA0450L	33	82%	7	86%	15	93%
Black	1	100%	1	100%		
Hispanic	4	75%	1	100%		
Two or More Races					2	50%
Unknown					2	100%
White	26	81%	5	80%	11	100%
BCA0451	12	58%	7	100%	35	74%
Black			1	100%	2	50%
Hispanic	2	100%	1	100%	4	75%
Two or More Races					1	0%
Unknown					2	0%
White	8	50%	5	100%	26	85%
BCA0451L	12	58%	7	100%	32	88%
Black			1	100%	2	50%
Hispanic	2	100%	1	100%	3	100%
Two or More Races					1	0%
Unknown					2	50%
White	8	50%	5	100%	24	96%
BCA0452	7	100%	15	100%	39	95%
American Indian					1	100%
Black					1	100%
Hispanic					7	86%
Two or More Races			2	100%	1	100%
White	5	100%	11	100%	29	97%
BCA0452L	7	100%	16	100%	40	93%
American Indian					1	100%
Black					1	100%
Hispanic					7	86%
Two or More Races			2	100%	1	100%
White	5	100%	12	100%	30	93%
BCA0453L	14	100%	13	100%	6	100%
Black					1	100%
Hispanic	1	100%	2	100%	1	100%
White	11	100%	10	100%	4	100%

Course Success Rate By Race/Ethnicity (2 of 2)

Program, Course, & Race/Ethnicity	2018-2019		2019-2020		2020-2021	
	#	% success	#	% success	#	% success
BCA0454	24	67%			7	100%
Am. Ind.	1	100%				
Asian					1	100%
Black	1	100%				
Hispanic	2	50%			1	100%
Unknown	1	100%				
White	19	63%			5	100%
BCA0454L	24	75%			7	100%
Am. Ind.	1	100%				
Asian					1	100%
Black	1	100%				
Hispanic	2	50%			1	100%
Unknown	1	100%				
White	19	74%			5	100%
BCA0455	15	93%	6	100%	11	64%
Black	1	100%	1	100%		
Hispanic	3	67%	1	100%		
Two or More Races					1	0%
Unknown					1	0%
White	10	100%	4	100%	9	78%
BCA0455L	15	93%	6	100%	11	82%
Black	1	100%	1	100%		
Hispanic	3	67%	1	100%		
Two or More Races					1	0%
Unknown					1	0%
White	10	100%	4	100%	9	100%
BCA0456L	10	100%	9	100%	14	100%
Am. Ind.			1	100%		
Asian					1	100%
Black					1	100%
Hispanic					2	100%
Unknown	1	100%	1	100%		
White	7	100%	7	100%	10	100%
BCA0457	10	90%	23	100%	5	100%
Am. Ind.			1	100%		
Asian			1	100%		
Black			1	100%	1	100%
Hispanic	1	100%	2	100%	1	100%
Unknown	1	0%	1	100%		
White	7	100%	17	100%	3	100%

Program, Course, & Race/Ethnicity	2018-2019		2019-2020		2020-2021	
	#	% success	#	% success	#	% success
BCA0457L	10	90%	23	100%	5	100%
Am. Ind.			1	100%		
Asian			1	100%		
Black			1	100%	1	100%
Hispanic	1	100%	2	100%	1	100%
Unknown	1	0%	1	100%		
White	7	100%	17	100%	3	100%
BCA0458	9	89%	14	100%	5	100%
Asian			1	100%		
Black			1	100%	1	100%
Hispanic			2	100%	1	100%
White	9	100%	10	100%	3	100%
BCA0458L	1	100%	14	100%	5	100%
Asian			1	100%		
Black			1	100%	1	100%
Hispanic			2	100%	1	100%
White	16	100%	10	100%	3	100%
BCA0459L	2	100%	9	100%	9	100%
Hispanic	1	100%	1	100%		
Two or More Races			1	100%		
Unknown					1	100%
White	293	88%	7	100%	8	100%

■ Indicates a success rate of 90% or higher
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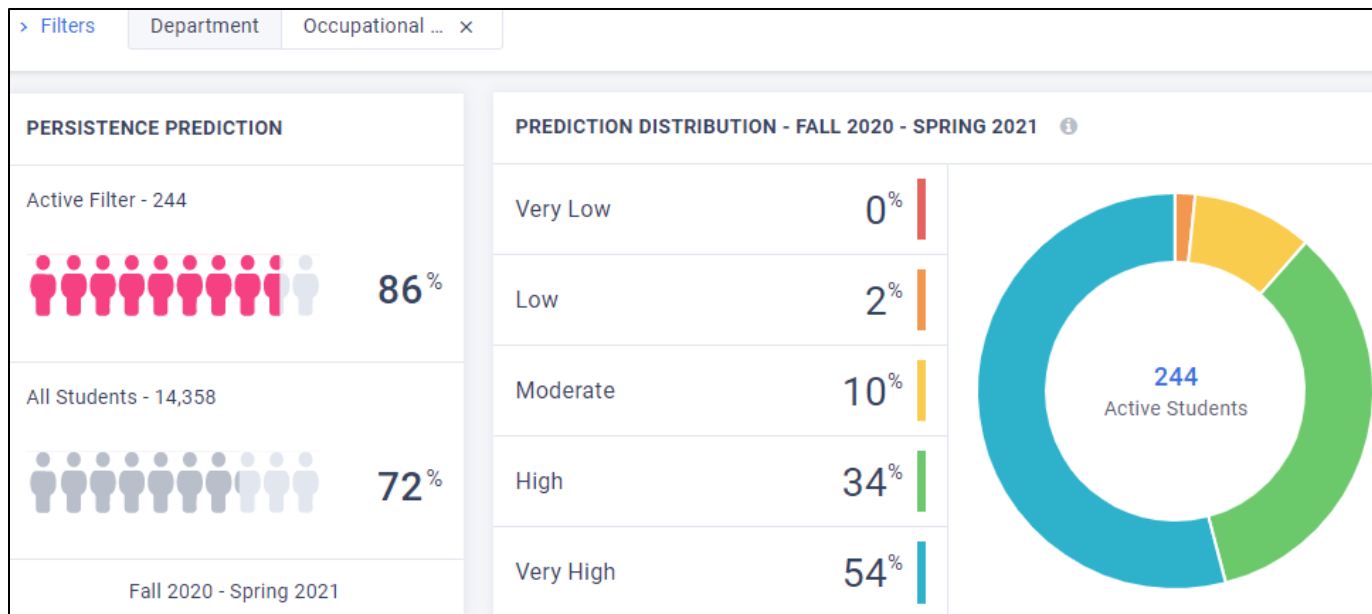
Course Success Rate By Race and Ethnicity

	2018-2019		2019-2020		2020-2021	
Race/Ethnicity	Enrolled	Success Rate	Enrolled	Success Rate	Enrolled	Success Rate
Am. Ind	5	100%	3	100%	2	100%
Asian	5	100%	5	100%	5	100%
Black	11	100%	12	100%	16	88%
Hispanic	31	84%	23	100%	39	92%
Two or More Races	5	100%	9	100%	11	55%
Unknown	14	64%	11	100%	13	62%
White	222	88%	195	99%	259	94%
Grand Total	293	88%	258	100%	345	91%

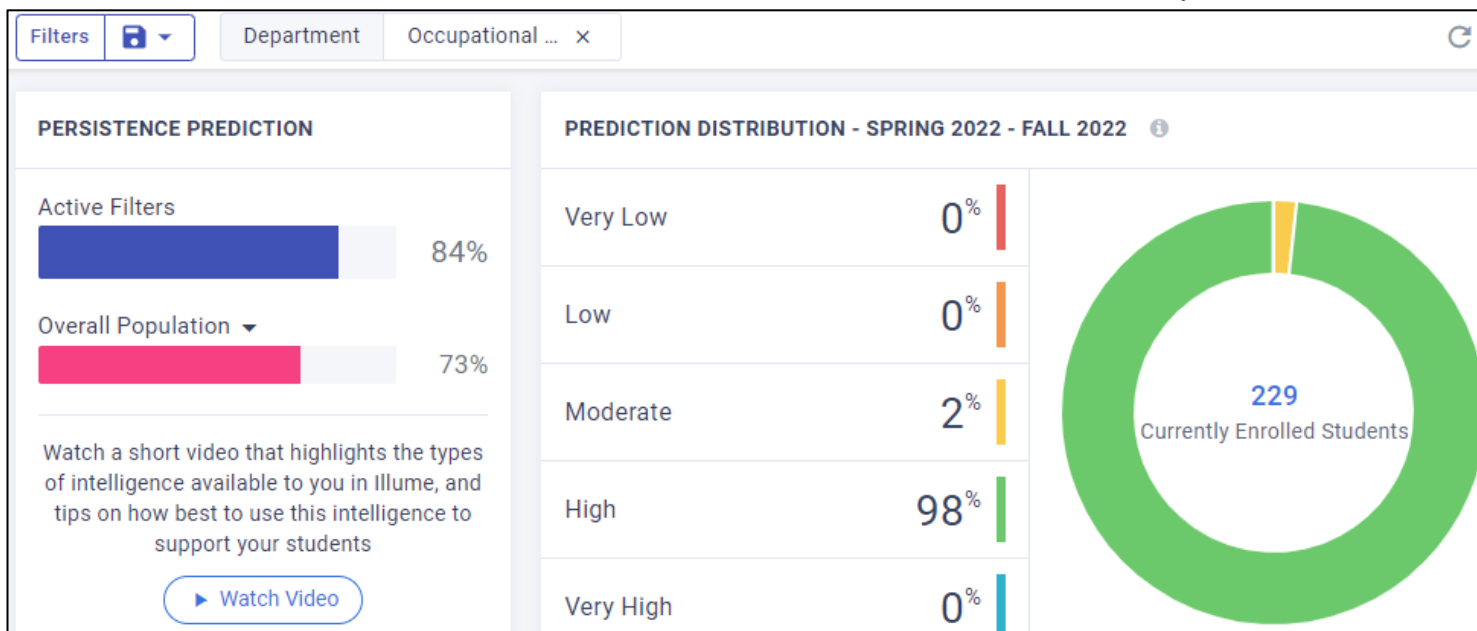
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Civitas

Captured on 9/22/2020



Captured on 1/24/2022



ASSESSMENT DAY

Mary Karl College of Workforce and Continuing Education
School of Occupational Apprenticeships
Plumbers and Pipefitter Apprentice
November 5, 2020

Strengths

Challenges

Recommendations

Academic Assessment

	LEVEL	FOCUS	CONDUCTED BY	FREQUENCY
Academic Success Committee	Program	<ul style="list-style-type: none"> Quality of assessment practices 	Committee of peers	Years 1 & 2
Instructional Program Review	Program / Cluster	<ul style="list-style-type: none"> Enrollment, retention, completion Industry certifications and job placement Program budget and staffing Advisory committees Curriculum changes 	Committee of peers	Year 3
Assessment Day	Course/ Program	<ul style="list-style-type: none"> Enrollment by demographics Graduation and retention Average class size Course success rate Placement rate SLOs, PLOs and ILOs 	Program Chair and Faculty	Years 1, 2, 3

Programs

[1070 - Plumbers and Pipefitter Apprentice - Union](#)

Last Assessment Day Action Items

Plumbers and Pipefitter Last Assessment Day: 4/14/2020

- Marketing campaign featuring the different opportunities as plumbers (trade) utilizing the grant;
- Continue to improve the Math course success rates
- Attend the Trades Women Build Nations conference, if offered;
- Model for National Apprenticeship Week, and bring recognition to the program, posters to attract female students

Plumbers and Pipefitter Apprentice #1070 Program Learning Outcomes

Graduates of the program will be able to:

PLO 1: Demonstrate the ability to follow rules, building codes, and all state and federal safety regulations.

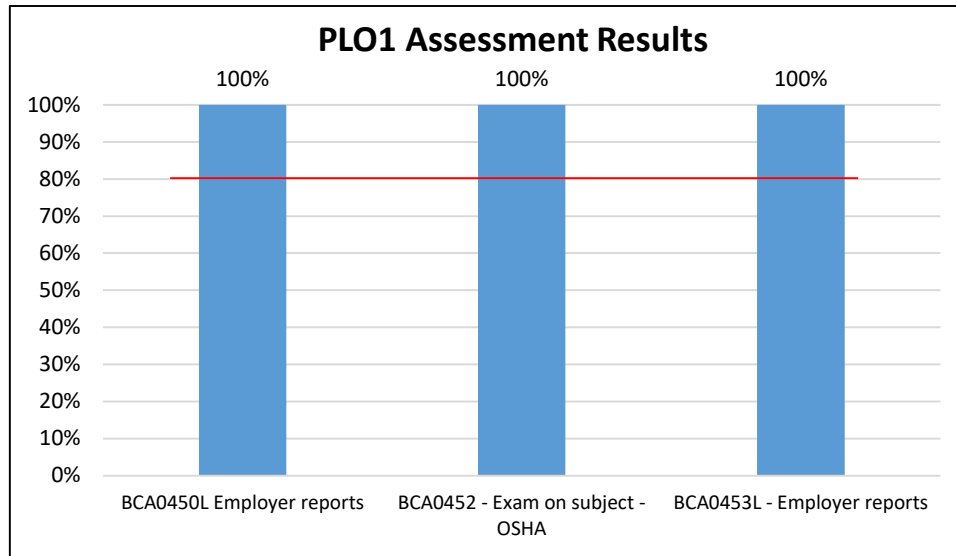
PLO 2: Demonstrate proper usage of different tools, equipment, materials and products used in the trade.

PLO 3: Demonstrate knowledge in all aspects of the industry including but not limited to theory, application, troubleshooting and safety.

PLO 4: Demonstrate skills in the residential, commercial and industrial markets.

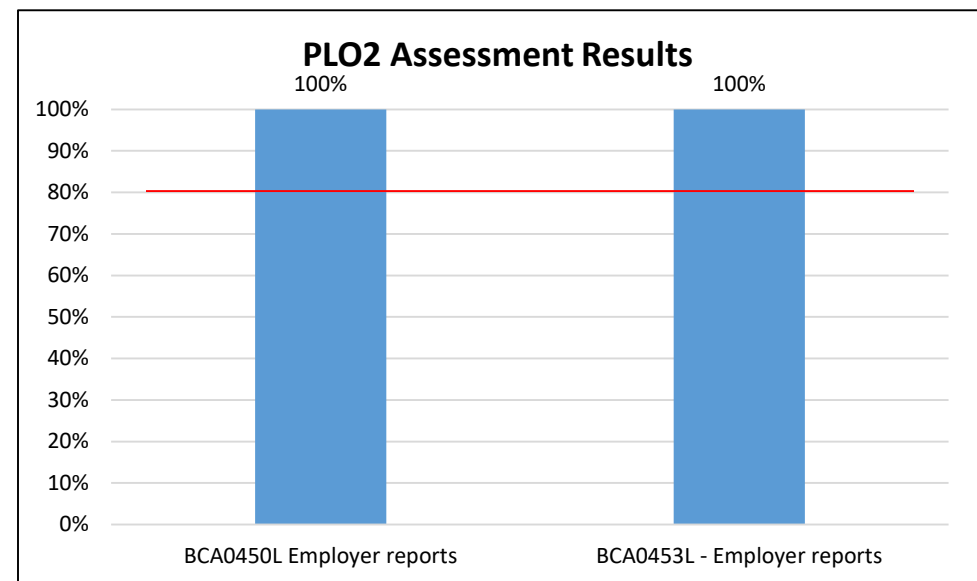
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Assessment Results 2019-2020

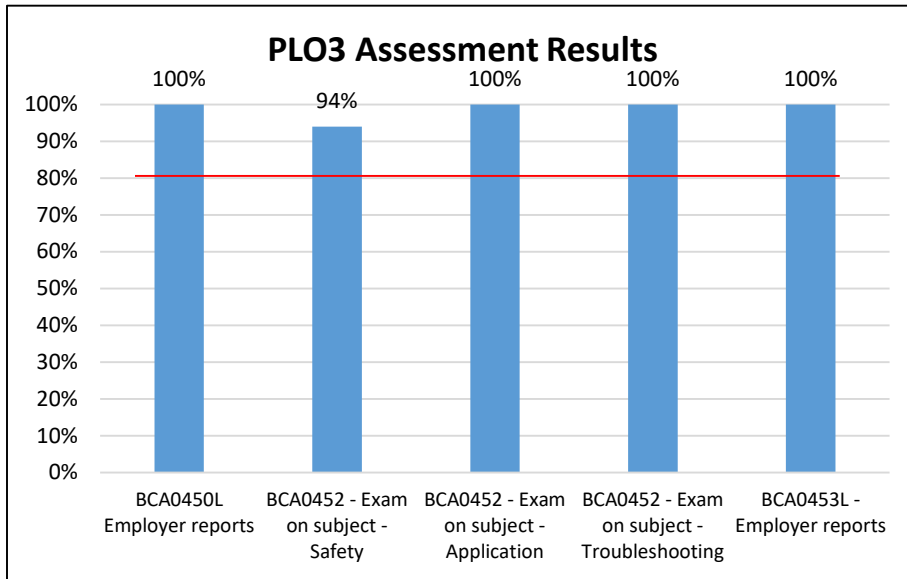


PLO1: Demonstrate the ability to follow rules, building codes, and all state and federal safety regulations. *80% of student will pass the OSHA. 80% of students will achieve satisfactory employer reports.*

PLO2: Demonstrate proper usage of different tools, equipment, materials and products used in the trade. *Target: 80% of students will achieve satisfactory employer reports.*

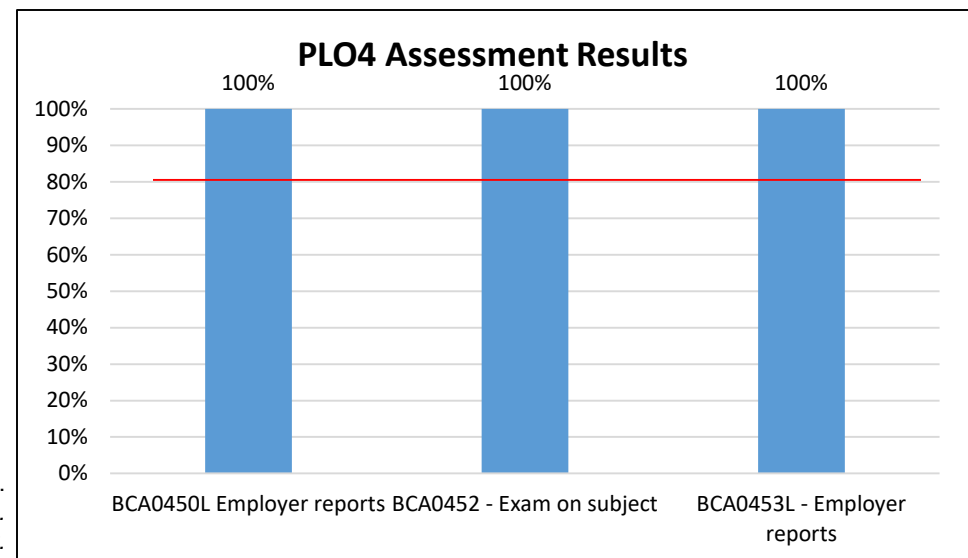


Assessment Results 2019-2020

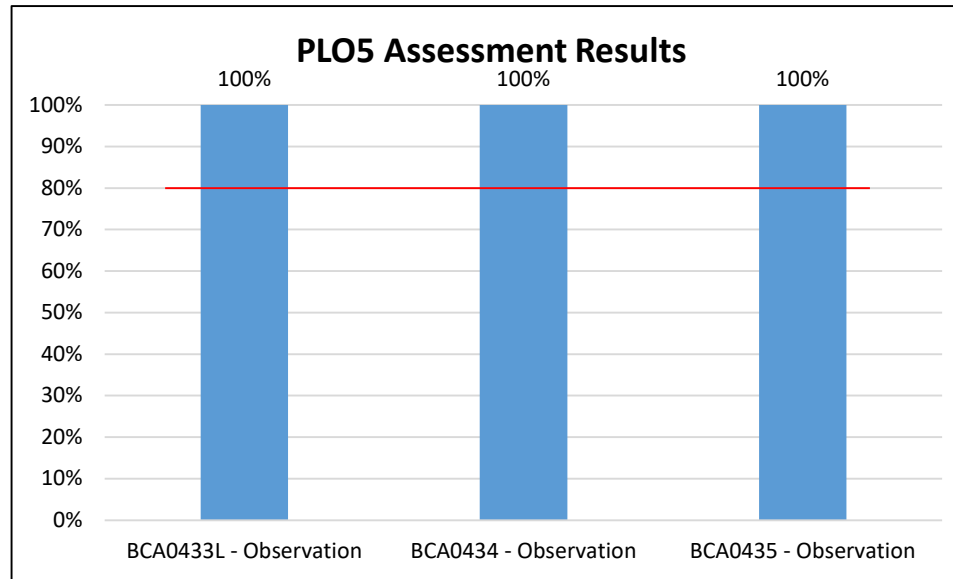


PLO3: Demonstrate knowledge in all aspects of the industry including but not limited to theory, application, troubleshooting and safety. *Target: 80% of students will achieve satisfactory employer reports. 80% of student will pass exam on subject.*

PLO4 Demonstrate skills in the residential, commercial and industrial markets.
*Target: 80% of students will achieve satisfactory employer reports.
 80% of student will pass exam on subject.*



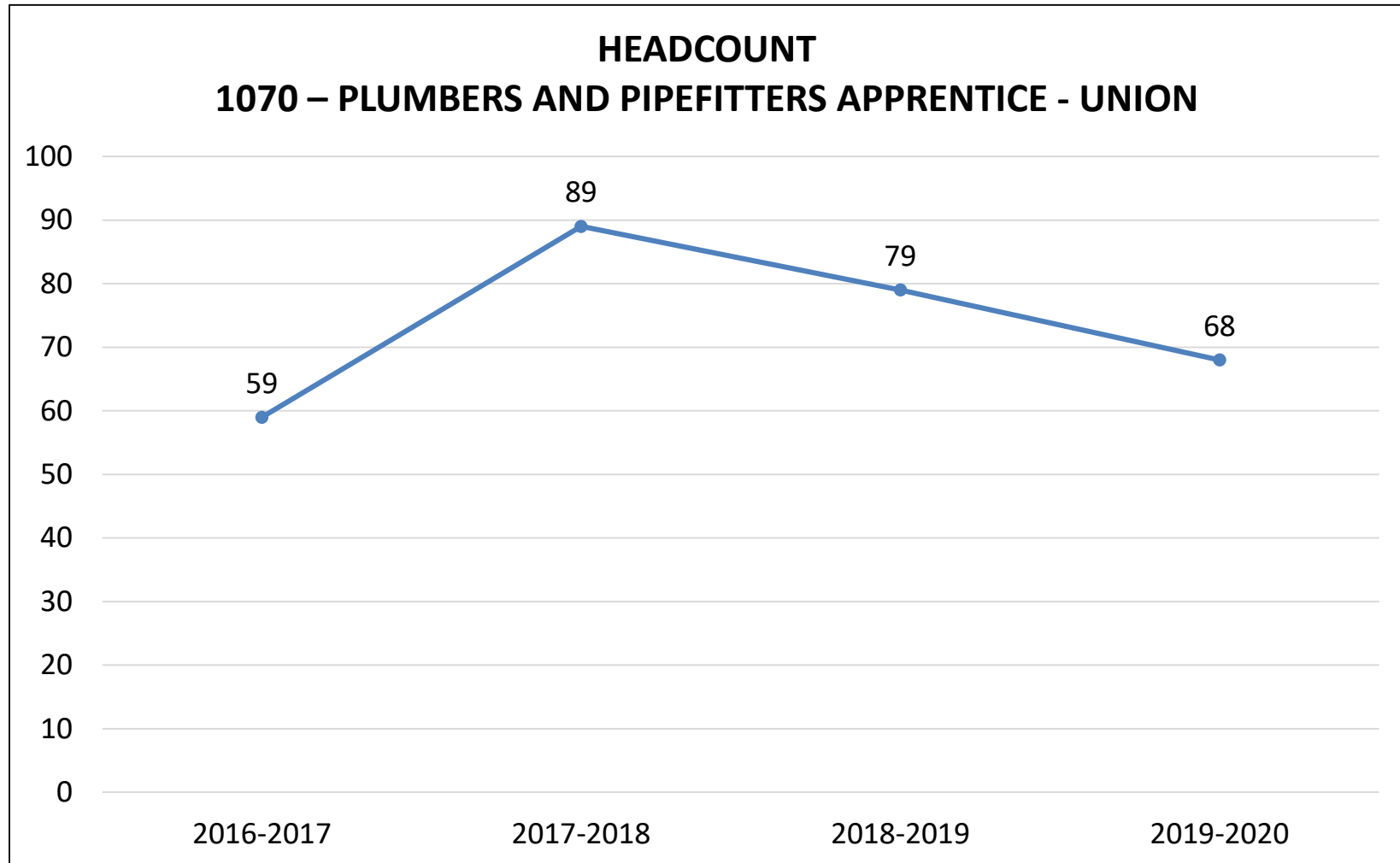
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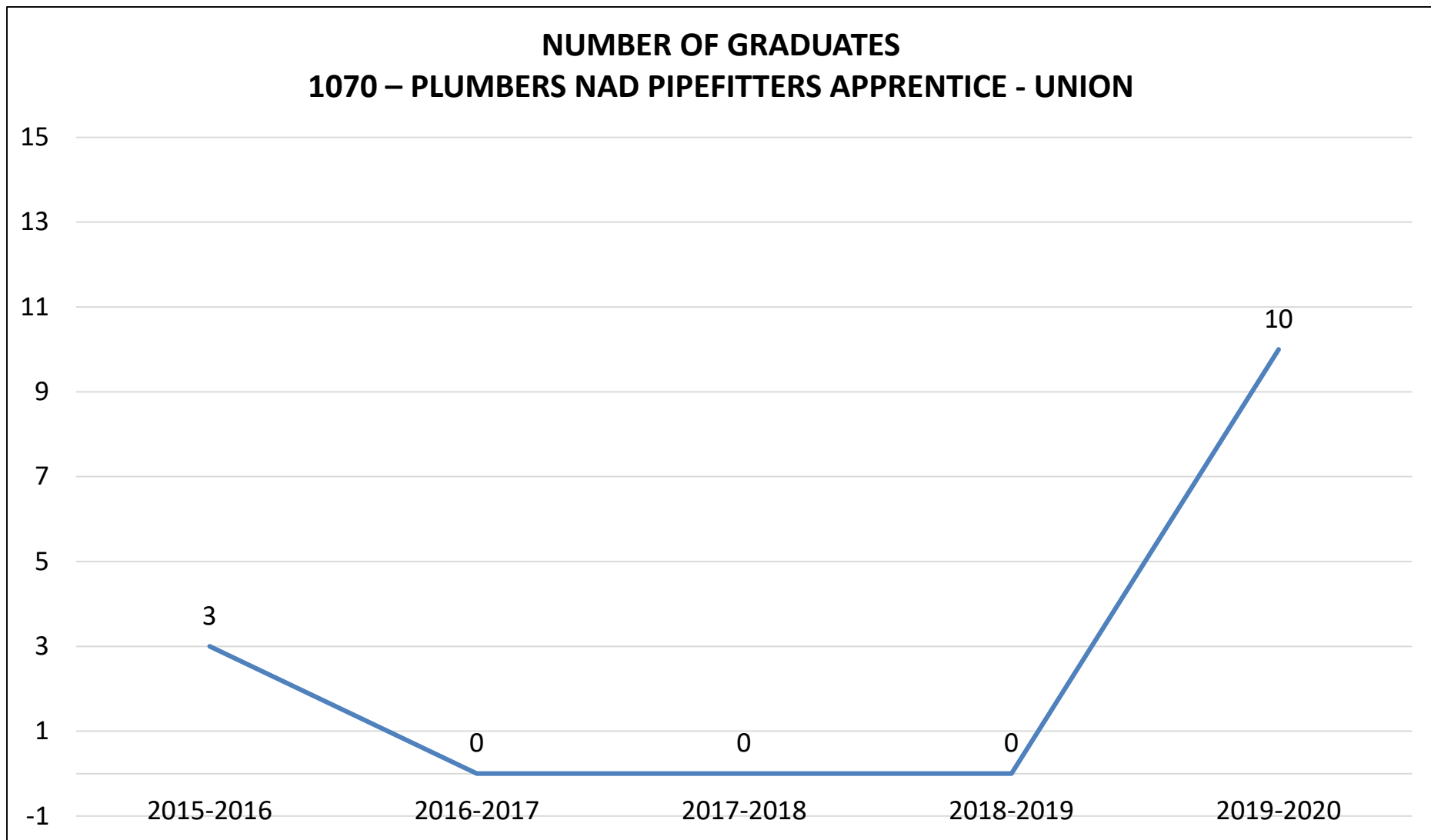


PLO5: Demonstrate the ability to develop and implement projects related to the field.
Target: 80% of students will achieve 80% or higher in all assessment measures

Assessment Data Program vs. Institutional Learning Outcomes

Program	Critical/ Creative Thinking		Communication		Cultural Literacy		Information and Technical Literacy	
	18/19	19/20	18/19	19/20	18/19	19/20	18/19	19/20
1070 – PLUMBERS AND PIPEFITTERS APPRENTICE - UNION	0%-100%	100%	0%-100%	100%	0%-100%	100%	0%-100%	100%

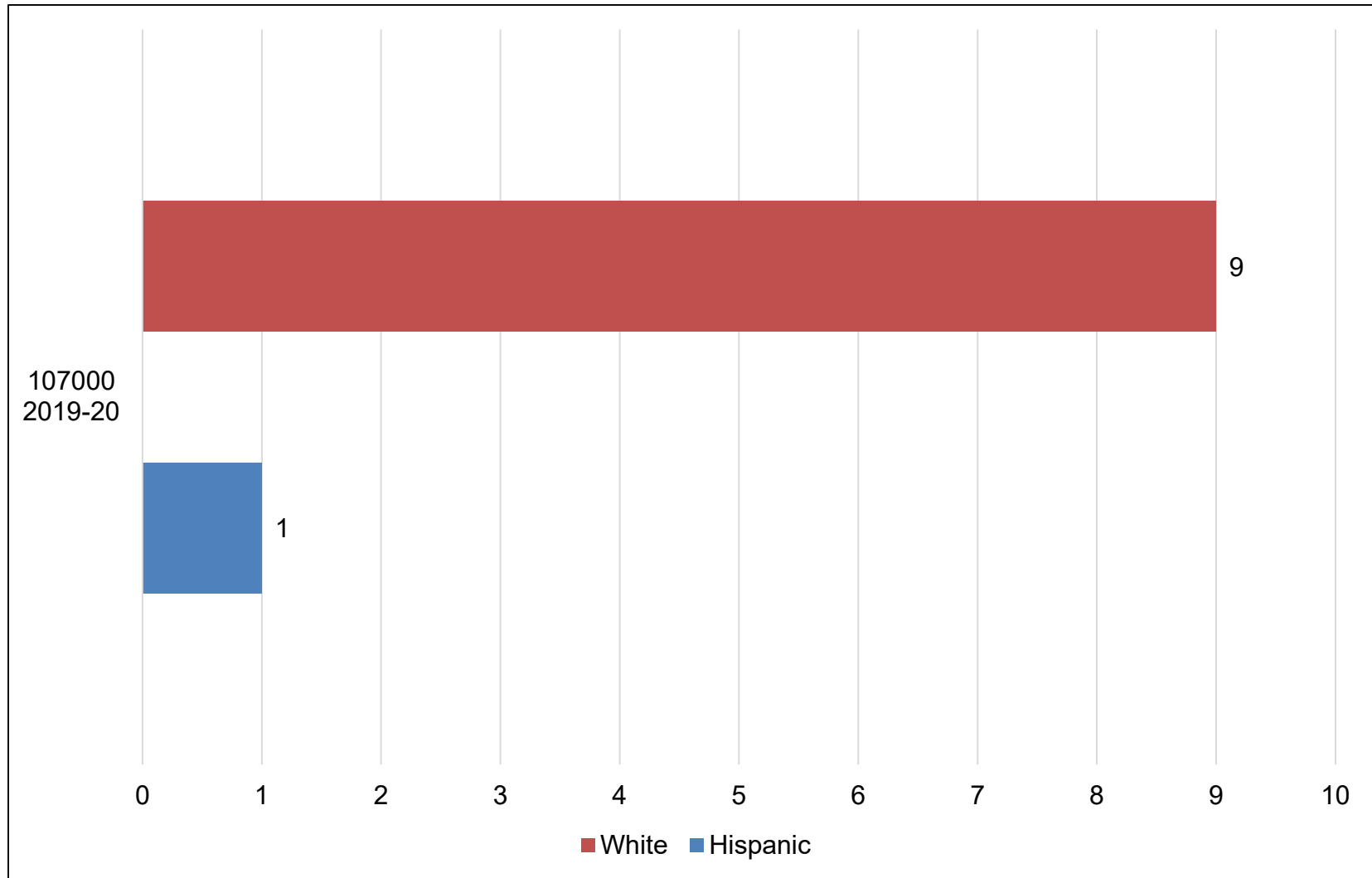




Source: IR Program Assessment Data

Number of Graduates by Race/Ethnicity

Occupational Apprenticeship – 1070 - Plumbers and Pipefitter Apprentice - Union



Time to Degree

Major	Average of Years to Completion
107000 – Plumbers and Pipefitter - Union	4.6

Retention Rates

Program and Year		Registered	Exclusions	Adjusted Cohort	Retained by DSC		Retained by Program		Total Retained %
					N	%	N	%	
1070 Plumbers and Pipefitter Apprentice - Union	2012	13	3	10	0	0%	10	100%	100%
	2013	10	4	6	0	0%	6	100%	100%
	2014	6	5	1	0	0%	0	0%	0%
	2015	25	0	25	0	0%	20	80%	80%
	2016	35	0	35	0	0%	31	89%	89%
	2017	67	0	67	1	1%	48	72%	73%
	2018	60	0	60	0	0%	45	75%	75%

Registered - Includes all students enrolled in the fall term of the specified year, with the specified program as their primary major.

Exclusions - Includes students who are deceased or graduated fall of the specified year or the following spring or summer.

Not retained - Students who were not registered the following fall term.

Retained by DSC - Students who were still registered at DSC the following fall but with a different primary major.

Retained by Program - Students who were registered the following fall with the same primary major.

Source: IR Program Assessment Data

Retention Rates by Race/Ethnicity

Major	Cohort	Race/Ethnicity	Registered	Exclusions	Adjusted Cohort	Retained by Program	
						N	%
1070 Plumbers and Pipefitter Apprentice - Union	FA16 to FA17	Asian	1	0	1	0	0%
		Black	2	0	2	2	100%
		Hispanic	2	0	2	2	100%
		Two or More Races	1	0	1	1	100%
		White	27	0	27	24	89%
	FA17 to FA18	Am. Ind	1	0	1	1	100%
		Black	3	0	3	2	67%
		Hispanic	4	0	4	4	100%
		Two or More Races	1	0	1	1	100%
		Unknown	3	0	3	3	100%
		White	55	0	55*	37	67%
	FA18 to FA19	Am. Ind	1	0	1	1	100%
		Asian	1	0	1	1	100%
		Black	2	0	2	2	100%
		Hispanic	6	0	6	4	66.7%
		Two or More Races	1	0	1	1	100%
		Unknown	4	0	4	2	50%
		White	45	0	45	34	75.6%

Retention of Underserved Populations: 56.25% Black, 57.95% Hispanic, and 73.08% Unknown

**one or more students retained by DSC*

Registered - Includes all students enrolled in the fall term of the specified year, with the specified program as their primary major.

Exclusions - Includes students who are deceased or graduated fall of the specified year or the following spring or summer.

Adjusted Cohort - Registered students less exclusions.

Not retained - Students who were not registered the following fall term.

Retained by DSC - Students who were still registered at DSC the following fall but with a different primary major.

Retained by Program - Students who were registered the following fall with the same primary major.

Source: IR Program Assessment Data

Retention Rates by Gender

Major	Fall Term	Gender	Registered	Exclusions	Adjusted Cohort	Retained by Program	
						N	%
1070 Plumbers and Pipefitter Apprentice - Union	2017	Female	8	0	8	7	88%
		Male	58	0	58*	40	69%
		Unknown	1	0	1	1	100%
	2018	Female	7	0	7	5	71.4%
		Male	52	0	52	39	75%
		Unknown	1	0	1	1	100%

**one or more students retained by DSC*

Performance Funding - Placement Rates
Workforce High Demand Occupations: 12.96%
DSC Workforce High Skill/High Wage Earnings: 59.10%

Program	Major	2013/14		2014/15		2015/16		2016/17		2017/18		Average Annual Salary
		DSC%	FCS%	DSC%	FCS%	DSC%	FCS%	DSC%	FCS%	DSC%	FCS%	
1070 Plumbers and Pipefitter Apprentices - Union	1070	100%	100%	100%	100%	100%	100%	N/A	89%	N/A	83%	N/A

Source: Florida Education Training Placement Information Program (FETPIP) :

■ Indicates the College average above the State Averages
■ Indicates the College average same as the State Averages
■ Indicates the College average below the State Averages




*Currently Inactive Program

N/A - No placement data for the program.

\$**,*** Less than 10 graduates found employed.

Course Success Rates

Major and Associated Courses		2016-2017		2017-2018		2018-2019		2019-2020	
		Attempted	% Successful	Attempted	% Successful	Attempted	% Successful	Attempted	% Successful
1070 Plumbers and Pipefitter Apprentice - Union	BCA0431			1	100%	13	100%	9	100%
	BCA0431L			1	100%	13	100%	9	100%
	BCA0432	1	100%	17	94%	9	100%	9	100%
	BCA0432L	1	100%	16	100%	9	100%	9	100%
	BCA0433L			1	0%			12	100%
	BCA0434	1	100%			2	50%	11	100%
	BCA0434L	1	100%					12	100%
	BCA0435			1	100%	10	100%	9	100%
	BCA0435L			1	100%	10	100%	9	100%
	BCA0450L	13	100%	19	89%	33	82%	7	86%
	BCA0451	13	100%	35	91%	12	58%	7	100%
	BCA0451L	13	100%	36	94%	12	58%	7	100%
	BCA0452	22	82%	22	68%	7	100%	15	100%
	BCA0452L	22	86%	33	82%	7	100%	16	100%
	BCA0453L	22	95%	12	83%	14	100%	13	100%
	BCA0454	21	100%	10	100%	24	67%		
	BCA0454L	21	100%	10	100%	24	75%		
	BCA0455	13	85%	16	88%	15	93%	6	100%
	BCA0455L	13	92%	15	93%	15	93%	6	100%
	BCA0456L	1	100%	21	100%	10	100%	9	100%
	BCA0457			20	95%	10	90%	23	100%
	BCA0457L	1	100%	20	95%	10	90%	23	100%
	BCA0458	22	86%	10	100%	9	89%	14	100%
	BCA0458L	22	95%	10	100%	9	100%	14	100%
	BCA0459L			1	100%	16	100%	9	100%
		Total	223	93%	328	91%	293	88%	258

 Indicates a success rate of 90% or higher
 Indicates a success rate between 70% and 89%
 Indicates a success rate below 70%

Source: IR Program Assessment Data

Course Success Rate By Race/Ethnicity (1 of 2)

Program, Course, & Race/Ethnicity	2018-2019		2019-2020	
	Enrolled	Success Rate	Enrolled	Success Rate
1070 - Plumbers - Union	293	88%	258	100%
BCA0431	13	100%	9	100%
Hispanic	1	100%	1	100%
Two or More Races			1	100%
White	11	100%	7	100%
BCA0431L	13	100%	9	100%
Hispanic	1	100%	1	100%
Two or More Races			1	100%
White	11	100%	7	100%
BCA0432	9	100%	9	100%
Unknown			1	100%
White	7	100%	8	100%
BCA0432L	9	100%	9	100%
Unknown			1	100%
White	7	100%	8	100%
BCA0433L			12	100%
Black			1	100%
Hispanic/Latino			1	100%
Unknown			1	100%
White			9	100%
BCA0434	2	50%	11	100%
Black			1	100%
Hispanic/Latino			1	100%
White			9	100%
BCA0434L			12	100%
Black			1	100%
Hispanic/Latino			1	100%
Unknown			1	100%
White			9	100%
BCA0435	10	100%	9	100%
Hispanic	1	100%	1	100%
Two or More Races			1	100%
White	9	100%	7	100%

Program, Course, & Race/Ethnicity	2018-2019		2019-2020	
	Enrolled	Success Rate	Enrolled	Success Rate
BCA0435L	10	100%	9	100%
Hispanic			1	100%
Two or More Races			1	100%
White	9	100%	7	100%
BCA0450L	33	82%	7	86%
Black	1	100%	1	100%
Hispanic	4	75%	1	100%
White	26	81%	5	80%
BCA0451	12	58%	7	100%
Black			1	100%
Hispanic	2	100%	1	100%
White	8	50%	5	100%
BCA0451L	12	58%	7	100%
Black			1	100%
Hispanic	2	100%	1	100%
White	8	50%	5	100%
BCA0452	7	100%	15	100%
Two or More Races			2	100%
Unknown			2	100%
White	5	100%	11	100%
BCA0452L	7	100%	16	100%
Two or More Races			2	100%
Unknown			2	100%
White	5	100%	12	100%
BCA0453L	14	100%	13	100%
Asian			1	100%
Hispanic	1	100%	2	100%
White	11	100%	10	100%

Course Success Rate By Race/Ethnicity (2 of 2)

Program, Course, & Race/Ethnicity	2018-2019		2019-2020	
	Enrolled	Success Rate	Enrolled	Success Rate
BCA0454	24	67%		
Am. Ind.	1	100%		
Black	1	100%		
Hispanic	2	50%		
Unknown	1	100%		
White	19	63%		
BCA0454L	24	75%		
Am. Ind.	1	100%		
Black	1	100%		
Hispanic	2	50%		
Unknown	1	100%		
White	19	74%		
BCA0455	15	93%	6	100%
Black	1	100%	1	100%
Hispanic	3	67%	1	100%
White	10	100%	4	100%
BCA0455L	15	93%	6	100%
Black	1	100%	1	100%
Hispanic	3	67%	1	100%
White	10	100%	4	100%
BCA0456L	10	100%	9	100%
Am. Ind.			1	100%
Unknown	1	100%	1	100%
White	7	100%	7	100%
BCA0457	10	90%	23	100%
Am. Ind.			1	100%
Asian			1	100%
Black			1	100%
Hispanic	1	100%	2	100%
Unknown	1	0%	1	100%
White	7	100%	17	100%

Program, Course, & Race/Ethnicity	2018-2019		2019-2020	
	Enrolled	Success Rate	Enrolled	Success Rate
BCA0457L	10	90%	23	100%
Am. Ind.			1	100%
Asian			1	100%
Black			1	100%
Hispanic	1	100%	2	100%
Unknown	1	0%	1	100%
White	7	100%	17	100%
BCA0458	9	89%	14	100%
Asian			1	100%
Black			1	100%
Hispanic			2	100%
White	9	100%	10	100%
BCA0458L	1	100%	14	100%
Asian			1	100%
Black			1	100%
Hispanic			2	100%
White	16	100%	10	100%
BCA0459L	2	100%	9	100%
Hispanic	1	100%	1	100%
Two or More Races			1	100%
White	293	88%	7	100%

Indicates a success rate of 90% or higher

Indicates a success rate between 70% and 89%

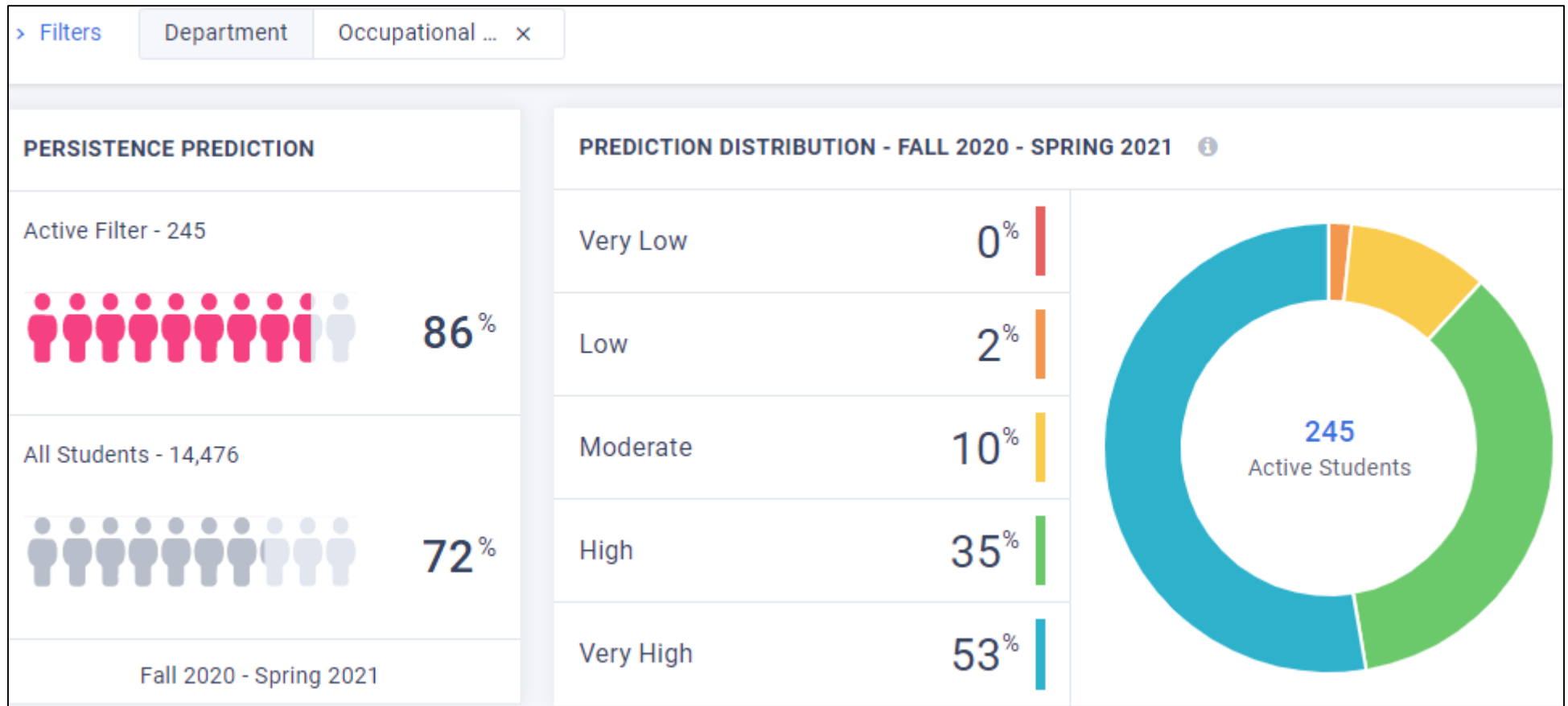
Indicates a success rate below 70%

Course Success Rate By Race and Ethnicity

	2018-2019		2019-2020	
Race/Ethnicity	Enrolled	Success Rate	Enrolled	Success Rate
Am. Ind	5	100%	3	100%
Asian	5	100%	5	100%
Black	11	100%	12	100%
Hispanic	31	84%	23	100%
Two or More Races	5	100%	9	100%
Unknown	14	64%	11	100%
White	222	88%	195	99%
Grand Total	293	88%	258	100%

■ Indicates a success rate of 90% or higher
■ Indicates a success rate between 70% and 89%
■ Indicates a success rate below 70%

Civitas



ASSESSMENT DAY

Mary Karl College of Workforce and Continuing Education
School of Occupational Apprenticeships
Plumbers Apprentice
April 14, 2020
(via Skype for Business)

Strengths

Challenges

Recommendations

Academic Assessment

	LEVEL	FOCUS	CONDUCTED BY	FREQUENCY
Academic Success Committee	Program	<ul style="list-style-type: none"> Quality of assessment practices 	Committee of peers	Years 1 & 2
Instructional Program Review	Program / Cluster	<ul style="list-style-type: none"> Enrollment, retention, completion Industry certifications and job placement Program budget and staffing Advisory committees Curriculum changes 	Committee of peers	Year 3
Assessment Day	Course/ Program	<ul style="list-style-type: none"> Enrollment by demographics Graduation and retention Average class size Course success rate Placement rate SLOs, PLOs and ILOs 	Program Chair and Faculty	Years 1, 2, 3

Programs

[1070 - Plumbers Apprentice - Union](#)

Last Assessment Day Action Items

Last Assessment Day: 4/30/2019

- Marketing campaign featuring the different opportunities as plumbers (trade)
- Find out why the BCA0452 success rate has been low for the past two years (option: orientation)
- Seek Math tutoring from the Academic Support Center (Math workshop)
- Karla will work with them to get data for the outcome assessment reports for 2017-2018 and 2018-2019
- For Institutional Research: OJT is under “Component” no under “Instructional Mode”

Plumbers Apprentice #1070 Program Learning Outcomes

Graduates of the program will be able to:

PLO 1: Demonstrate the ability to follow rules, building codes, and all state and federal safety regulations.

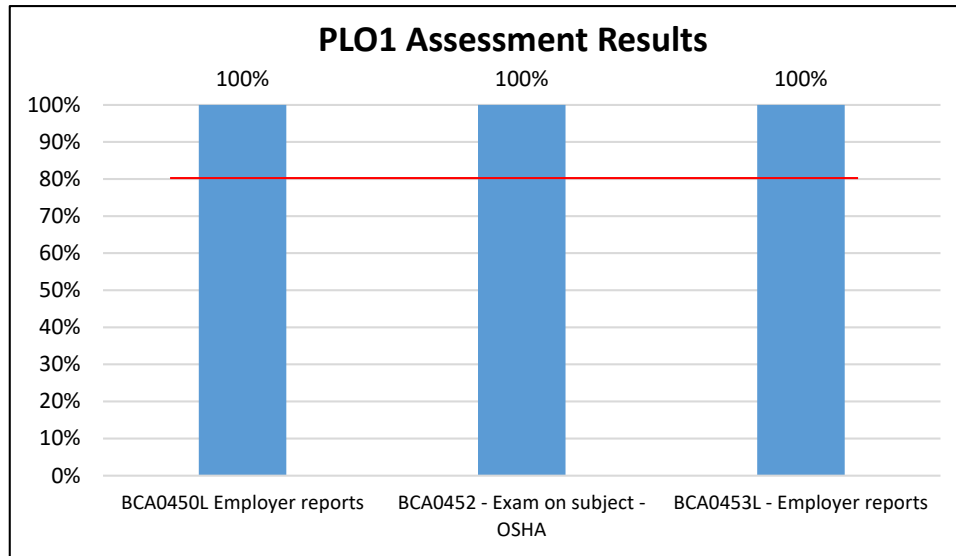
PLO 2: Demonstrate proper usage of different tools, equipment, materials and products used in the trade.

PLO 3: Demonstrate knowledge in all aspects of the industry including but not limited to theory, application, troubleshooting and safety.

PLO 4: Demonstrate skills in the residential, commercial and industrial markets.

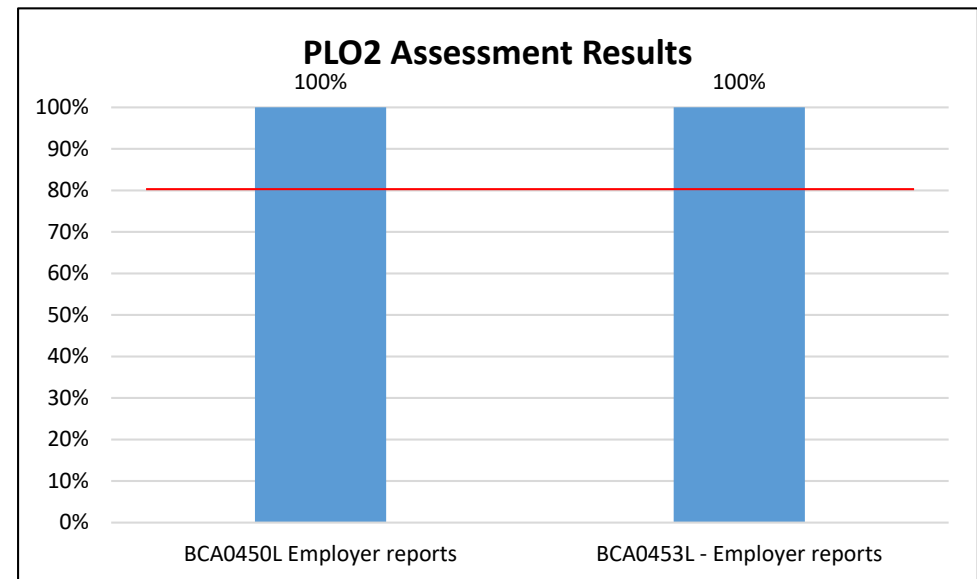
PLO 5: Demonstrate the ability to develop and implement projects related to the field.

Assessment Results 2018-2019

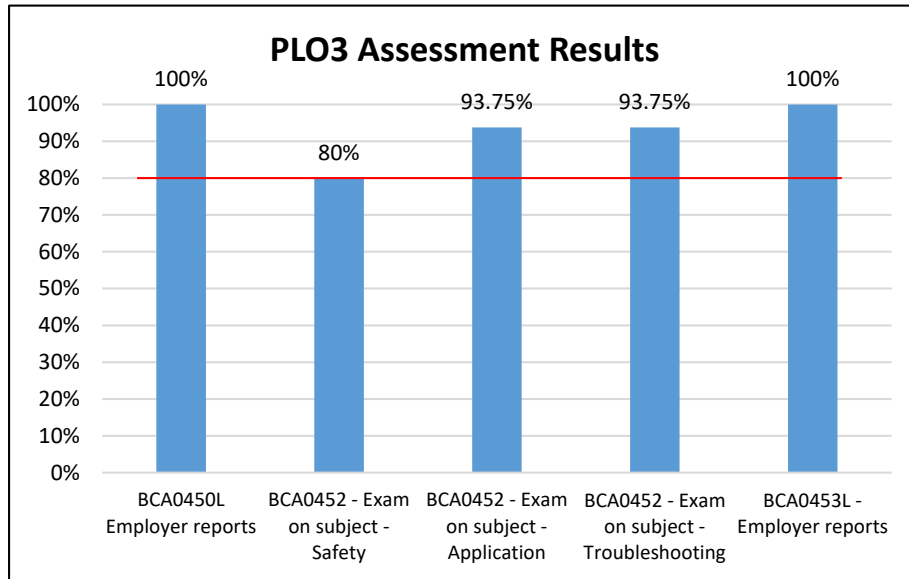


PLO1: Demonstrate the ability to follow rules, building codes, and all state and federal safety regulations. *80% of student will pass the OSHA. 80% of students will achieve satisfactory employer reports.*

PLO2: Demonstrate proper usage of different tools, equipment, materials and products used in the trade. *Target: 80% of students will achieve satisfactory employer reports.*

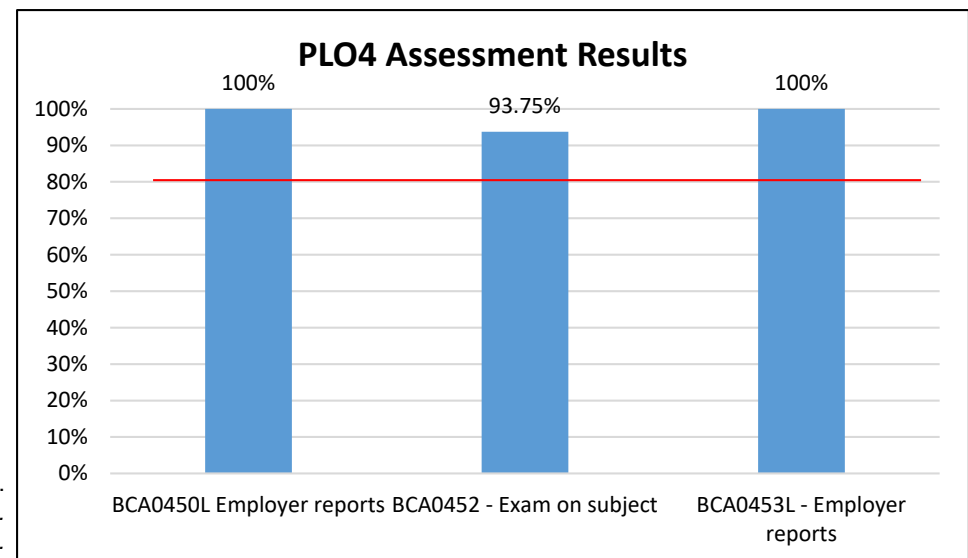


Assessment Results 2018-2019

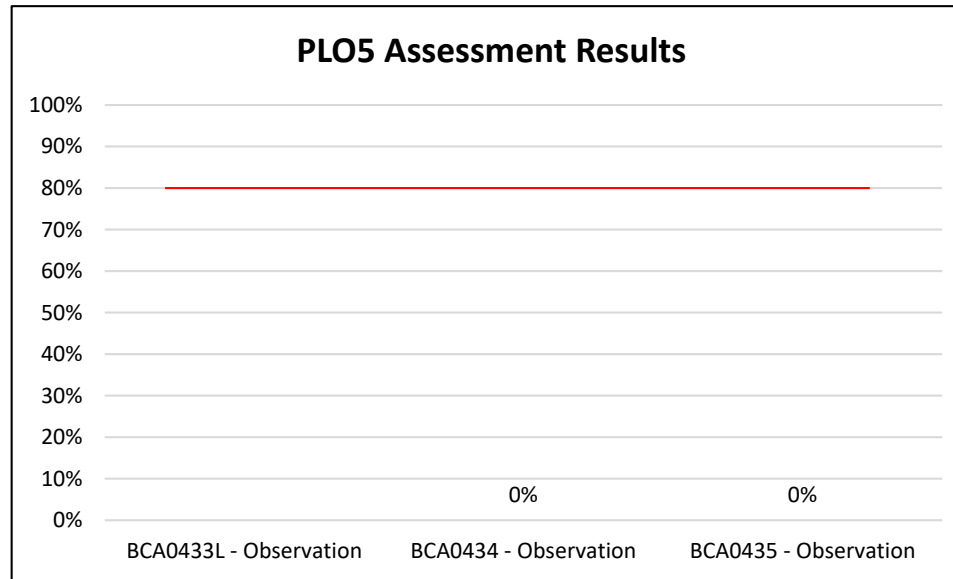


PLO3: Demonstrate knowledge in all aspects of the industry including but not limited to theory, application, troubleshooting and safety. *Target: 80% of students will achieve satisfactory employer reports. 80% of student will pass exam on subject.*

PLO4 Demonstrate skills in the residential, commercial and industrial markets.
*Target: 80% of students will achieve satisfactory employer reports.
 80% of student will pass exam on subject.*



Assessment Results 2018-2019



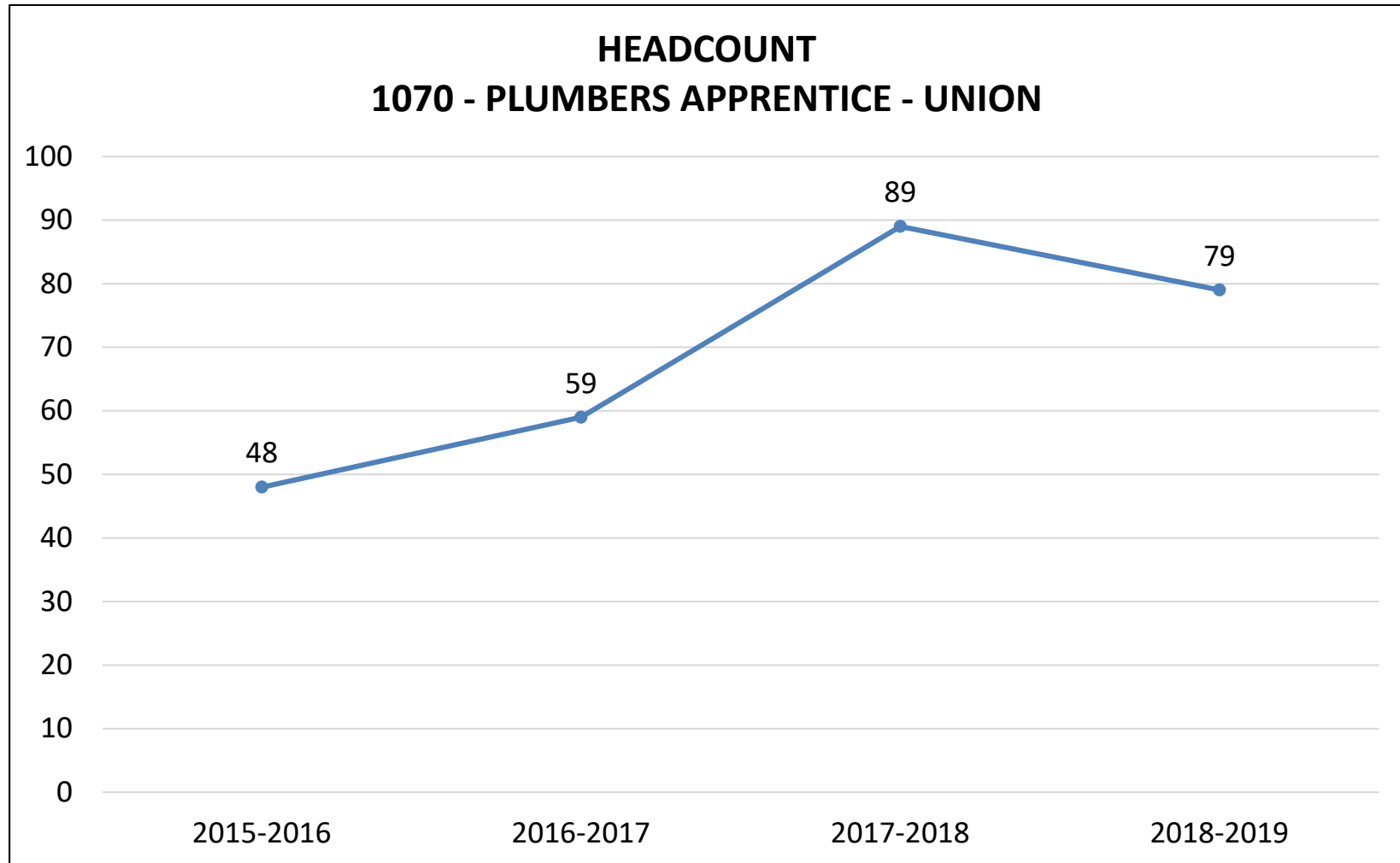
PLO5: Demonstrate the ability to develop and implement projects related to the field.
Target: 80% of students will achieve 80% or higher in all assessment measures

****BCA0433L was not offered***

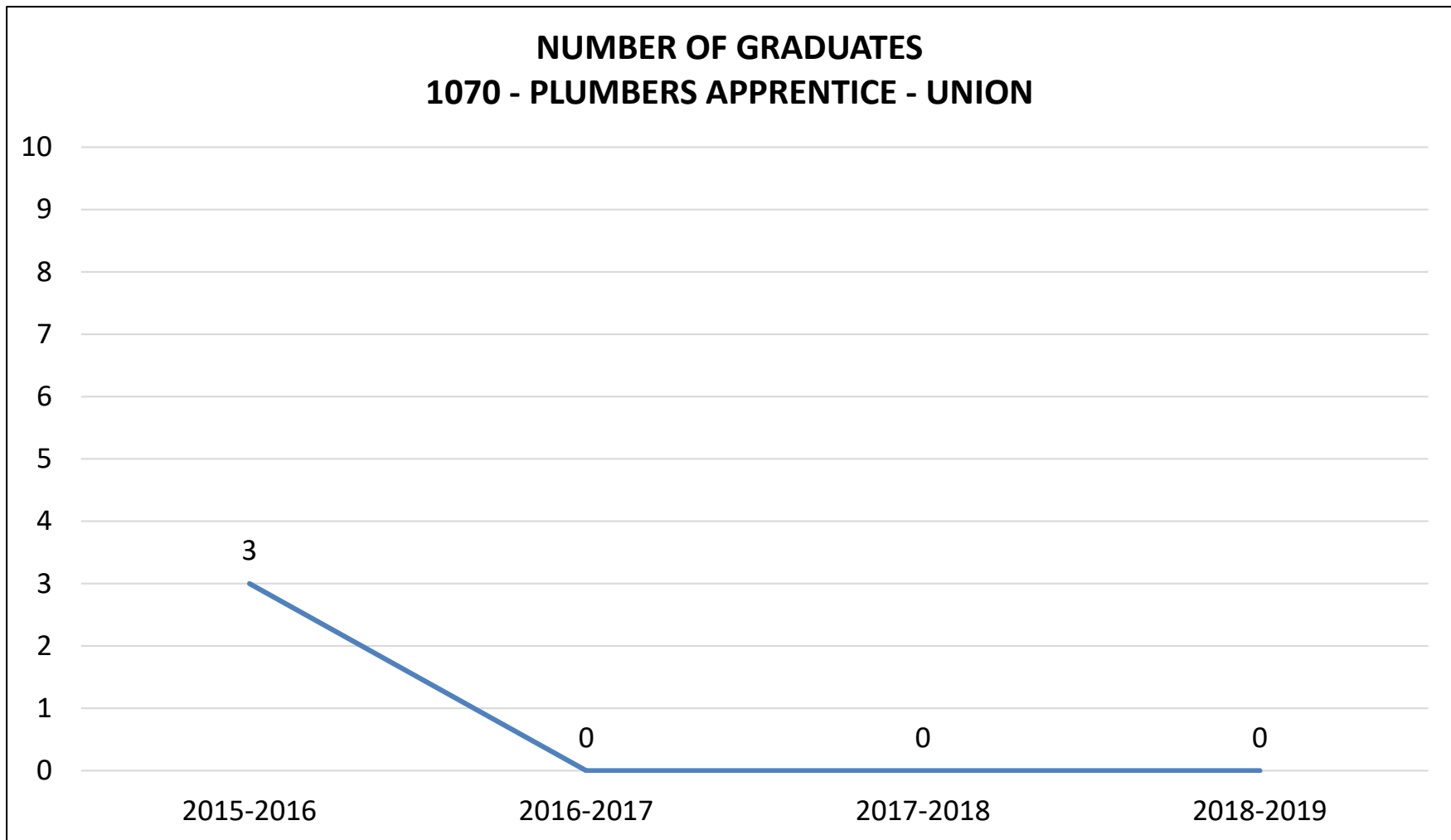
Assessment Data

Program vs. Institutional Learning Outcomes

Program	Critical/ Creative Thinking		Communication		Cultural Literacy		Information and Technical Literacy	
	17/18	18/19	17/18	18/19	17/18	18/19	17/18	18/19
1070 - PLUMBERS APPRENTICE - UNION	89.5%-90.9%	0%-100%	89.5%-90.9%	0%-100%	89.5%-90.9%	0%-100%	89.5%-90.9%	0%-100%



College Enrollment Decreased: 0.7%(14/15); 1.15% (15/16); 3.7%(16/17); 0.7%(17/18)



Source: IR Program Assessment Data

Retention Rates

Program and Year		Registered	Exclusions	Adjusted Cohort	Retained by DSC		Retained by Program		Total Retained %
					N	%	N	%	
1070 PLUMBERS APPRENTICE - UN	2011	31	0	31	0	0%	12	39%	39%
	2012	13	3	10	0	0%	10	100%	100%
	2013	10	4	6	0	0%	6	100%	100%
	2014	6	5	1	0	0%	0	0%	0%
	2015	25	0	25	0	0%	20	80%	80%
	2016	35	0	35	0	0%	31	89%	89%
	2017	67	0	67	1	1%	48	72%	73%

College average (67.1%)

Registered - Includes all students enrolled in the fall term of the specified year, with the specified program as their primary major.

Exclusions - Includes students who are deceased or graduated fall of the specified year or the following spring or summer.

Not retained - Students who were not registered the following fall term.

Retained by DSC - Students who were still registered at DSC the following fall but with a different primary major.

Retained by Program - Students who were registered the following fall with the same primary major.

Source: IR Program Assessment Data

Retention Rates by Race/Ethnicity

Major	Cohort	Race/Ethnicity	Registered	Exclusions	Adjusted Cohort	Retained by Program	
						N	%
1070 PLUMBERS APPRENTICE – UN	FA15 to FA16	Black	3	0	3	2	66.6%
		Hispanic	1	0	1	1	100%
		White	21	0	21	17	81%
	FA16 to FA17	Asian	1	0	1	0	0%
		Black	2	0	2	2	100%
		Hispanic	2	0	2	2	100%
		Two or More Races	1	0	1	1	100%
		White	27	0	27	24	89%
	FA17 to FA18	Am. Ind	1	0	1	1	100%
		Black	3	0	3	2	67%
		Hispanic	4	0	4	4	100%
		Two or More Races	1	0	1	1	100%
		Unknown	3	0	3	3	100%
		White	55	0	55*	37	67%

College average (African American: 49.9%, Hispanic: 66.3%)

Registered - Includes all students enrolled in the fall term of the specified year, with the specified program as their primary major.

Exclusions - Includes students who are deceased or graduated fall of the specified year or the following spring or summer.

Adjusted Cohort - Registered students less exclusions.

Not retained - Students who were not registered the following fall term.

Retained by DSC - Students who were still registered at DSC the following fall but with a different primary major.

Retained by Program - Students who were registered the following fall with the same primary major.

**one or more students retained by DSC*

Source: IR Program Assessment Data

Fall 2017 to Fall 2018 Retention Rates by Gender

Major	Fall Term	Registered	Exclusions	Adjusted Cohort	Retained by Program	
					N	%
1070 PLUMBERS APPRENTICE – UN	Female	8	0	8	7	88%
	Male	58	0	58*	40	69%
	Unknown	1	0	1	1	100%

**one or more students retained by DSC*

Performance Funding - Placement Rates (College average: 95.5%)

Program	Major	2012/13		2013/14		2014/15		2015/16		2016/17		Average Annual Salary
		DSC%	FCS%	DSC%	FCS%	DSC%	FCS%	DSC%	FCS%	DSC%	FCS%	
PLUMBERS APPRENTICE UNION	1070	71%	85%	100%	100%	100%	100%	100%	100%	N/A	89%	N/A

■ Indicates the College average above the State Averages
■ Indicates the College average same as the State Averages
■ Indicates the College average below the State Averages




*Currently Inactive Program

N/A - No placement data for the program.

\$**,*** Less than 10 graduates found employed.

Course Success Rates

Major and Associated Courses		2015-2016		2016-2017		2017-2018		2018-2019	
		Attempted	% Successful	Attempted	% Successful	Attempted	% Successful	Attempted	% Successful
1070 - PLUMBERS APPRENTICE - UNION	BCA0431					1	100%	13	100%
	BCA0431L					1	100%	13	100%
	BCA0432			1	100%	17	94%	9	100%
	BCA0432L			1	100%	16	100%	9	100%
	BCA0433L	5	100%			1	0%		
	BCA0434			1	100%			2	50%
	BCA0434L			1	100%				
	BCA0435					1	100%	10	100%
	BCA0435L					1	100%	10	100%
	BCA0450L	28	100%	13	100%	19	89%	33	82%
	BCA0451	26	96%	13	100%	35	91%	12	58%
	BCA0451L	26	96%	13	100%	36	94%	12	58%
	BCA0452	14	79%	22	82%	22	68%	7	100%
	BCA0452L	14	86%	22	86%	33	82%	7	100%
	BCA0453L			22	95%	12	83%	14	100%
	BCA0454			21	100%	10	100%	24	67%
	BCA0454L			21	100%	10	100%	24	75%
	BCA0455	26	35%	13	85%	16	88%	15	93%
	BCA0455L	26	85%	13	92%	15	93%	15	93%
	BCA0456L			1	100%	21	100%	10	100%
	BCA0457					20	95%	10	90%
	BCA0457L			1	100%	20	95%	10	90%
	BCA0458			22	86%	10	100%	9	89%
	BCA0458L			22	95%	10	100%	9	100%
BCA0459L	1	100%			1	100%	16	100%	
	Total	166	83%	223	93%	328	91%	293	88%

 Indicates a success rate of 90% or higher
 Indicates a success rate between 70% and 89%
 Indicates a success rate below 70%

Source: IR Program Assessment Data

Course Success Rate By Race/Ethnicity (1 of 2)

Program, Course, & Race/Ethnicity	2017-2018		2018-2019	
	Enrolled	Success Rate	Enrolled	Success Rate
1070 - Plumbers - Union	328	91%	293	88%
BCA0431	1	100%	13	100%
Black			1	100%
Hispanic			1	100%
White			11	100%
BCA0431L	1	100%	13	100%
Black			1	100%
Hispanic			1	100%
White			11	100%
BCA0432	17	94%	9	100%
Hispanic	1	100%	1	100%
Two o More Races			1	100%
White	13	92%	7	100%
BCA0432L	16	100%	9	100%
Hispanic	1	100%	1	100%
Two o More Races			1	100%
White	12	100%	7	100%
BCA0434			2	50%
Unknown			2	50%
BCA0435	1	100%	10	100%
Hispanic			1	100%
White	1	100%	9	100%
BCA0435L	1	100%	10	100%
			1	100%
White	1	100%	9	100%
BCA0450L	19	89%	33	82%
Asian			1	100%
Black			1	100%
Hispanic	1	100%	4	75%
Unknown	1	100%	1	100%
White	16	88%	26	81%

Program, Course, & Race/Ethnicity	2017-2018		2018-2019	
	Enrolled	Success Rate	Enrolled	Success Rate
BCA0451	35	91%	12	58%
Asian			1	100%
Hispanic	2	100%	2	100%
Unknown	1	100%	1	0%
White	30	90%	8	50%
BCA0451L	36	94%	12	58%
Asian			1	100%
Hispanic	2	100%	2	100%
Unknown	1	100%	1	0%
White	31	94%	8	50%
BCA0452	22	68%	7	100%
Black			1	100%
Hispanic	3	67%	1	100%
White	17	65%	5	100%
BCA0452L	33	82%	7	100%
Black	1	100%	1	100%
Hispanic	4	100%	1	100%
White	26	77%	5	100%
BCA0453L	12	83%	14	100%
Am. Ind			1	100%
Hispanic	1	100%	1	100%
Unknown	1	100%	1	100%
White	8	88%	11	100%

■ Indicates a success rate of 90% or higher
■ Indicates a success rate between 70% and 89%
■ Indicates a success rate below 70%

Course Success Rate By Race/Ethnicity (2 of 2)

Program, Course, & Race/Ethnicity	2017-2018		2018-2019	
	Enrolled	Success Rate	Enrolled	Success Rate
BCA0454	10	100%	24	67%
Am. Ind.			1	100%
Black			1	100%
Hispanic	1	100%	2	50%
Unknown	1	100%	1	100%
White	7	100%	19	63%
BCA0454L	10	100%	24	75%
Am. Ind.			1	100%
Black			1	100%
Hispanic	1	100%	2	50%
Unknown	1	100%	1	100%
White	7	100%	19	74%
BCA0455	16	88%	15	93%
Asian			1	100%
Black			1	100%
Hispanic	1	100%	3	67%
White	13	85%	10	100%
BCA0455L	15	93%	15	93%
Asian			1	100%
Black			1	100%
Hispanic	1	100%	3	67%
White	12	92%	10	100%
BCA0456L	21	100%	10	100%
Hispanic	1	100%	1	100%
Two or More Races			1	100%
Unknown	1	100%	1	100%
White	17	100%	7	100%
BCA0457	20	95%	10	90%
Hispanic	1	100%	1	100%
Two or More Races			1	100%
Unknown			1	0%
White	17	94%	7	100%

Program, Course, & Race/Ethnicity	2017-2018		2018-2019	
	Enrolled	Success Rate	Enrolled	Success Rate
BCA0457L	20	95%	10	90%
Hispanic	1	100%	1	100%
Two or More Races			1	100%
Unknown			1	0%
White	17	94%	7	100%
BCA0458	10	100%	9	89%
Am. Ind.			1	100%
Unknown	1	100%	7	86%
White	7	100%	9	100%
BCA0458L	10	100%	1	100%
Am. Ind.			1	100%
Unknown	1	100%	7	100%
White	7	100%	16	100%
BCA0459L	1	100%	2	100%
Black			1	100%
Hispanic			1	100%
Unknown			12	100%
White	1	100%	293	88%

■ Indicates a success rate of 90% or higher
■ Indicates a success rate between 70% and 89%
■ Indicates a success rate below 70%

Course Success Rate By Race and Ethnicity

	2017-2018		2018-2019	
Race/Ethnicity	Enrolled	Success Rate	Enrolled	Success Rate
Am. Ind	5	100%	5	100%
Asian	3	67%	5	100%
Black	13	100%	11	100%
Hispanic	24	96%	31	84%
Two or More Races	5	100%	5	100%
Unknown	17	100%	14	64%
White	261	90%	222	88%
Grand Total	328	91%	293	88%

■ Indicates a success rate of 90% or higher
■ Indicates a success rate between 70% and 89%
■ Indicates a success rate below 70%

Civitas – illumine Students

- Dashboard
- Initiatives
- Outreach
- Scratchpad
- Nudge Hub
- User Management
- Data Info

TRENDS BETA
PERSISTENCE INSIGHTS
COURSE INSIGHTS

Saved Filters

> Filters
Department
Occupational Apprenticeships x

OVERVIEW

237 of 14,865 Active Students

PERSISTENCE PREDICTION

Active Filter - 237

71%

All Students - 14,865

71%

Spring 2020 - Fall 2020

PREDICTION DISTRIBUTION - SPRING 2020 - FALL 2020

Very Low	0%
Low	2%
Moderate	10%
High	83%
Very High	5%

237
Active Students

POWERFUL PREDICTORS

Powerful Predictors use historical data to show what variables are important to persistence for this group of students

Highest Signal
Lowest Signal

Rank 1
Rank 39

[Learn about Powerful Predictors](#)
[View All Powerful Predictors](#)

Academic Progress (10) Strongest correlation to persistence	Academic Performance (GPA) (5)	Enrollment (4)
Background/Demographics (3)	Area of Study (7)	Engagement (LMS) (4)
Custom (1)	Financial Aid (5) Weakest correlation to persistence	

Civitas – illumine Courses

