

ASSESSMENT DAY

Mary Karl College of Workforce and Continuing Education
School of Occupational Apprenticeships
Plumbers Apprentice
April 14, 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 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.

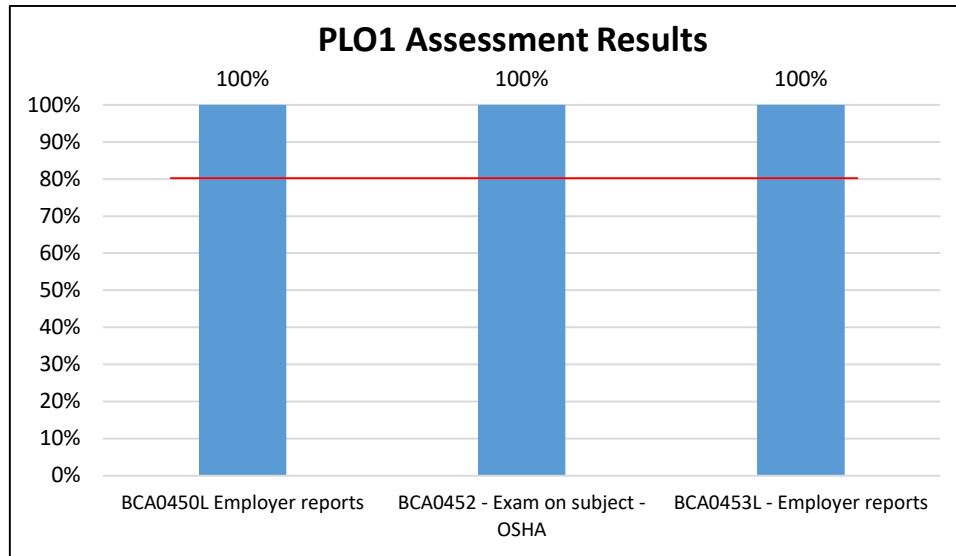
PLO 2: Demonstrate proper usage of different tools, equipment, materials and products used in the trade.

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.

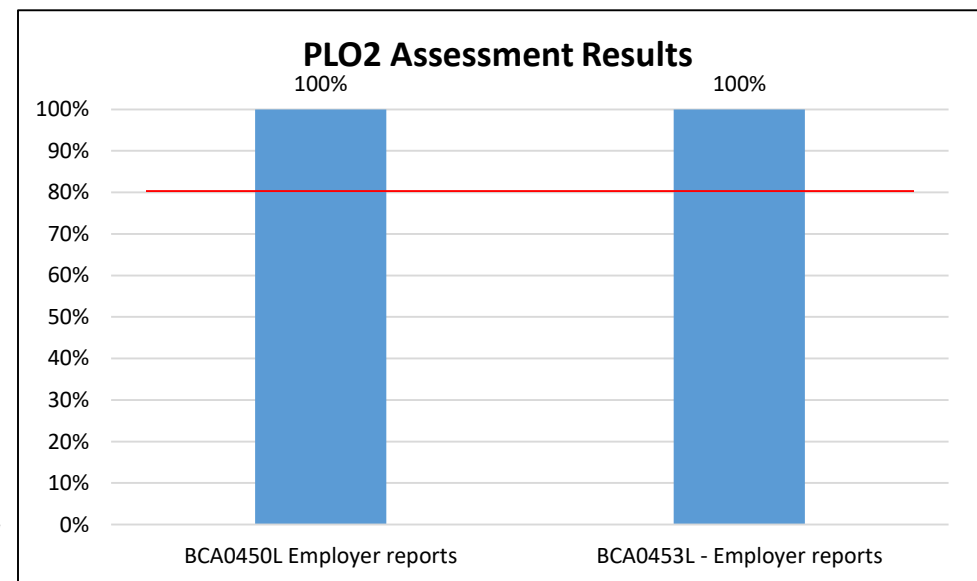
PLO 5: Demonstrate the ability to develop and implement projects related to the field.

Assessment Results 2018-2019

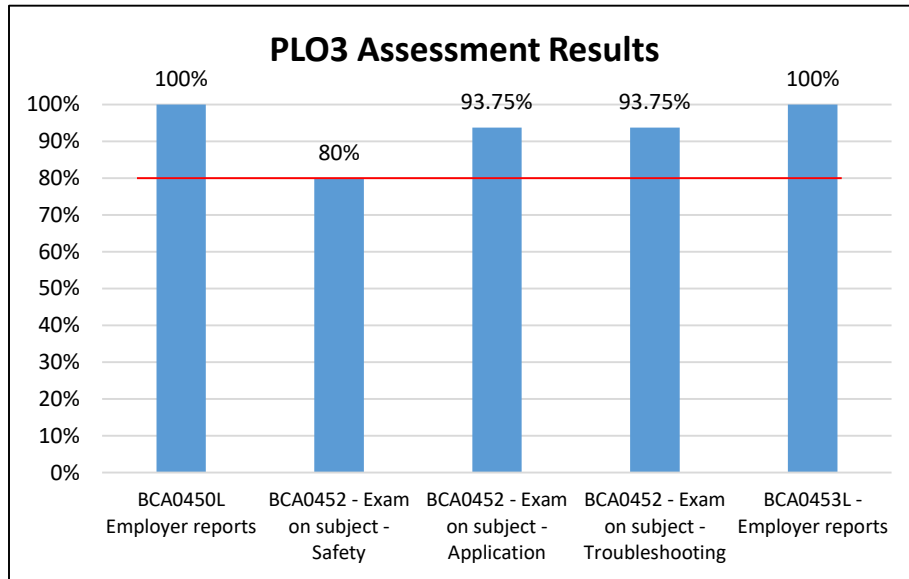


PLO1: Demonstrate the ability to follow rules, building codes, and all state and federal safety regulations. *80% of student will pass the OSHA. 80% of students will achieve satisfactory employer reports.*

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

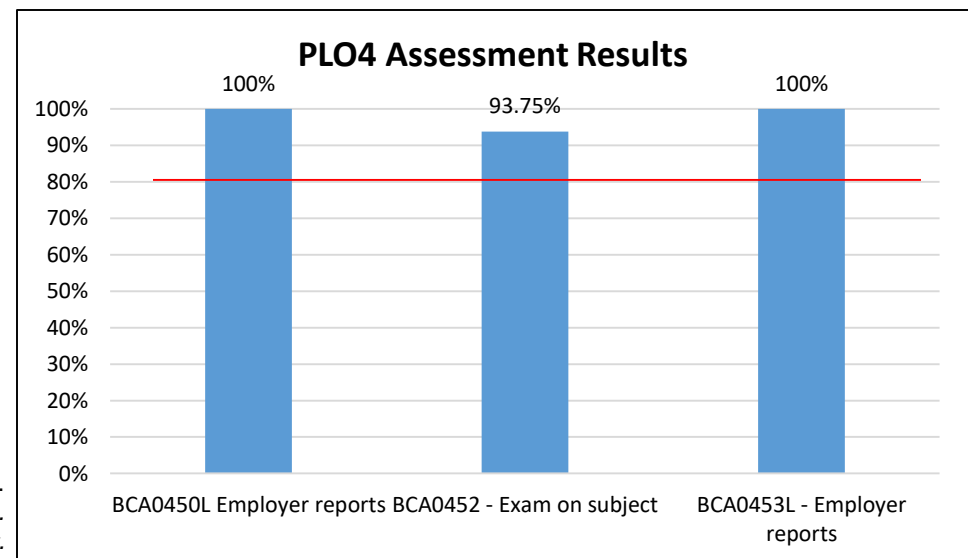


Assessment Results 2018-2019

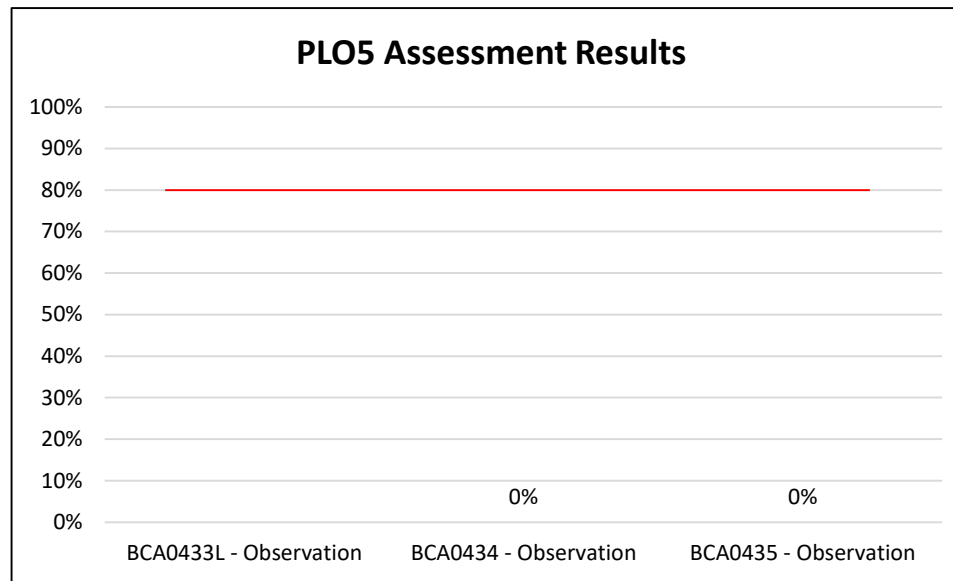


PLO3: Demonstrate knowledge in all aspects of the industry including but not limited to theory, application, troubleshooting and safety. *Target: 80% of students will achieve satisfactory employer reports. 80% of student will pass exam on subject.*

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



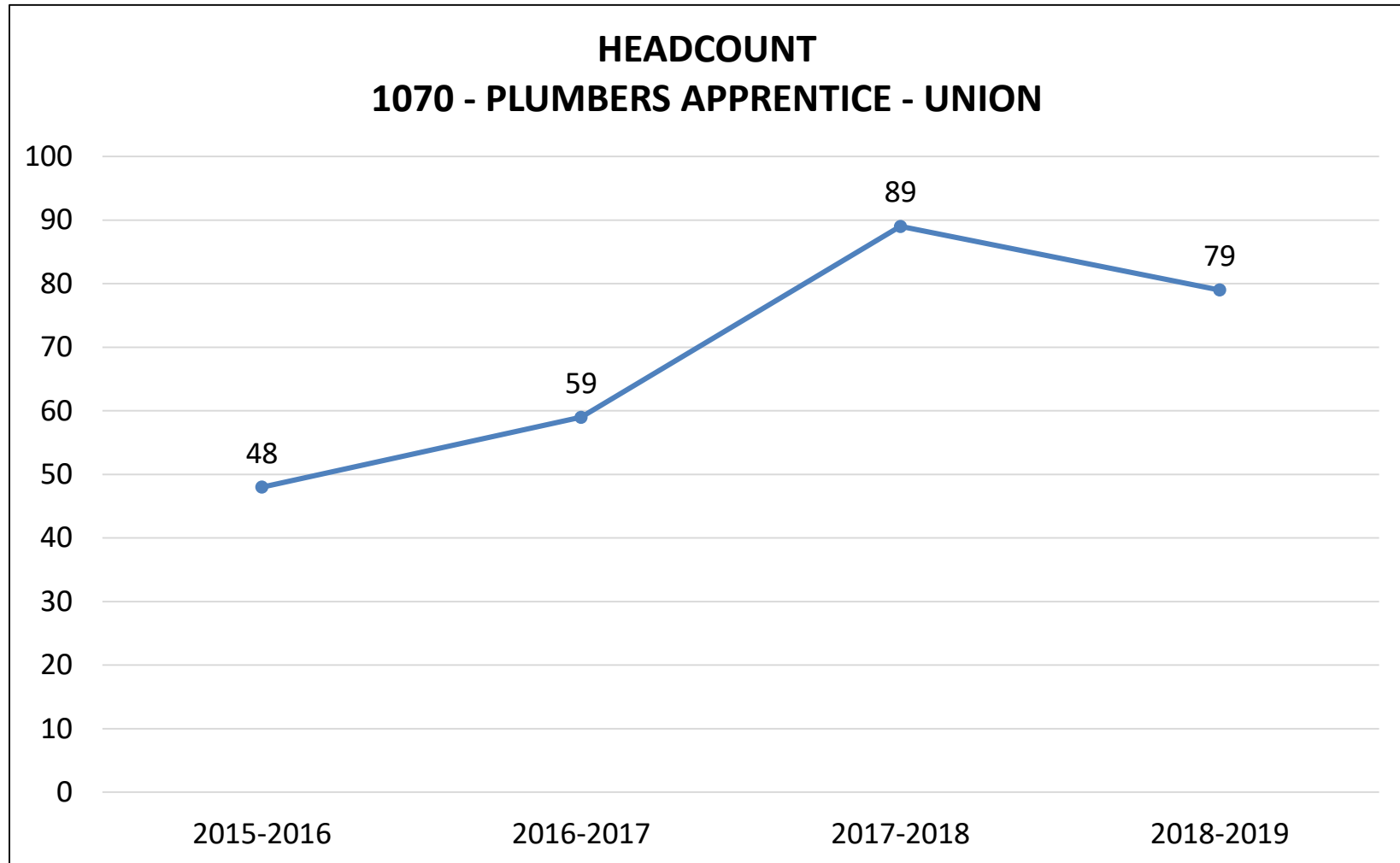
PLO5: Demonstrate the ability to develop and implement projects related to the field.
Target: 80% of students will achieve 80% or higher in all assessment measures

****BCA0433L was not offered***

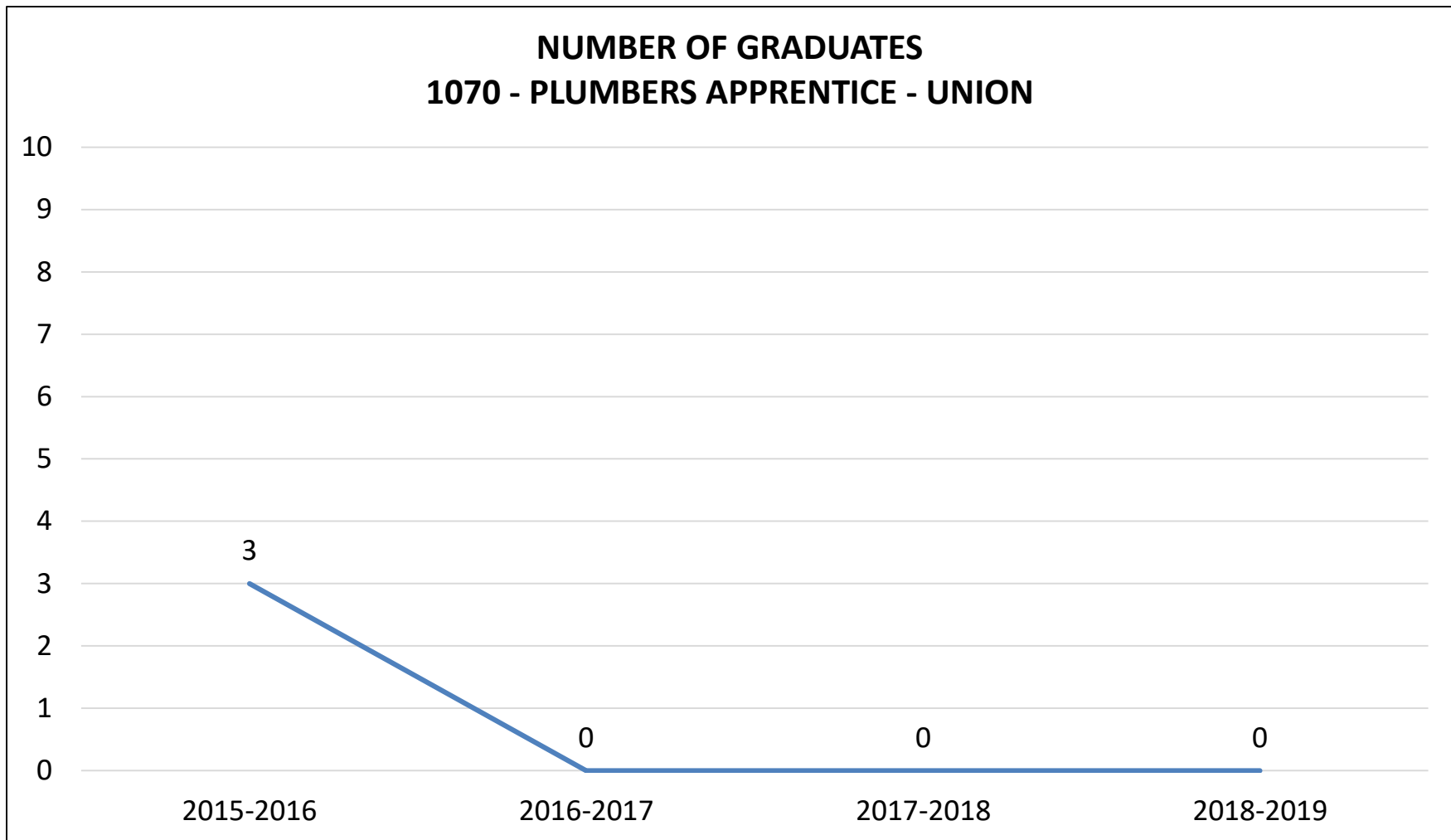
Assessment Data

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%

Source: IR Program Assessment Data

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

