Welcome to Program Review

College of Alameda - 2019

ATECH - Instruction

Program Review

Program Overview

Please verify the mission statement for your program. If your program has not created a mission statement, provide details on how your program supports and contributes to the College mission.

The Automotive Technology curriculum is designed to prepare students for employment as apprentice auto mechanics or to allow students to continue toward a Baccalaureate degree in other advanced schools of technology in preparation for future management and teaching careers in the automotive industry.

Program Total Faculty and/or Staff

Full Time	Part Time
Richard Greenspan	Henry Chan
John Peterson	Patrick Dong
Rufino Ramos	Mark Christensen
Wayne Fung	

The Program Goals below are from your most recent Program Review or APU. If none are listed, please add your most recent program goals. Then, indicate the status of this goal, and which College and District goal your program goal aligns to. If your goal has been completed, please answer the follow up question regarding how you measured the achievement of this goal.

The same as weâ€™ve done for the last 3 years, and the same as we plan to do for the next three years and the three years after that.
*Maintain quality of program
*Keep up with changes in industry
*Professional development for faculty
*Continue to maintain NATEF (ASE Educational Foundation) Master Level program certification status
*Update equipment, such as hybrid, direct injection, electric and fuel cell vehicles, for student labs
*Update diagnostic equipment to match industry standards

Status

In-Progress

If Completed, What evidence supports completion of this goal? How did you measure the achievement of this goal?

College Goal

Advance CoA teaching and learning

District Goal

Advance Student Access, Equity, and Success

Describe your current utilization of facilities, including labs and other space

We use B Building lecture and lab space 5 days and evenings a week during semesters and summer, plus occasionally on weekends. Some of the space is also rented out by Peralta to the Community College Foundation Smog Referee, where they resolve consumer disputes by inspecting and testing vehicles.

Career Education

Using the LaunchBoard, what are the job placement rates for your program for the past three years? (What % of your graduates have secured employment in the field within 3 months of leaving the program?). Note: you will need to establish a username and password for the LaunchBoard if you don't already have one.

2016 - 17 Job Placement Rate (%)	% employed in the field within 3 months	2017 - 18 Job Placement Rate (%)	% employed in the field within 3 months	2018 - 19 Job Placement Rate (%)	% employed in the field within 3 months
%	%	%	%	%	%

Using the LaunchBoard, what are the projected job openings in your discipline for the next three years?

Job Openings

There will be 7,600 job openings in California for Auto Mechanics between 2016 and 2026 according to Labor Market info.

Launch Board does not have information on placement rates for Auto Technology for 16-17, 17-18, or 18-19, so those were left blank above.

How is your discipline or program responding with regard to changes in labor market demand?

Keeping up up with changes in industry including self-driving and networked vehicles, electric cars, hybrids, fuel cell vehicles, etc.

Do you have an industry advisory board in place?

Yes

Has your industry advisory board met regularly (at least once per quarter or semester)?

Yes

Please attach a list of your industry advisory board members.

Atech Advisory Committee Members.docx

Please describe the number of activities and recommendations resulting from advisory committee meetings that have occurred in the past three years. What information was presented that required changes to be made to your program?

Advisory committee has been active regarding COA Car Shows, purchases of auction vehicles for instruction (for example, on Direct Injection systems), suggestions for upgrading tools and equipment, etc. Advisory Committee minutes are available for review if anyone wants to see them.

Does your program require state or national licensing? If yes, please specify. What is your college's set standard passing rate for this exam or license?	No	If yes, Exam or License Set standard pass rate
Do your students participate in other third party certifications? If so, please provide their success rates (include the % of completing students successfully getting certified).	Yes	If yes, Third party certification Automotive Service Excellence testing (don't know pass rate of students, ,since testing is not mandatory in industry) Set standard pass rate
Is your program working with a Deputy Sector Navigator?	Yes	If yes, Briefly describe your program's work with the Deputy Sector Navigator. Reviewing and updating curriculum, training, donations

What programs similar to yours exist in the surrounding area or at nearby East bay colleges? (Micro region in LaunchBoard)

College	In which ways is your program collaborating with other community colleges in the region?
Chabot, CCSF, Foothill DeAnza, Evergreen, Skyline, Solano, Santa Rosa,	College Auto Teachers meetings; Bureau of Automotive Repair training; Regional Strong Workforce training with Deputy Sector Navigator (Pam Gutman)

Please list and briefly describe the grant name, granting agency, and the goals of each grant as it relates to you discipline/department/program. - Grant 1: - Text

Grant Name	Granting Agency	Grant Goals	Last year of Funding
Regional Strong Workforce	State Strong Workforce funding	Advanced Transportation training	2020

How is your program using Strong Workforce Funds?

Updating technology, buying equipment, student aides, visits to shops where interns work

In the boxes below, please add improvement actions and resource requests that are directly related to the questions answered in this section. If there are no improvement actions or resource requested in this area, leave blank.

Improvement Actions

Improvement Action

Improvement Action

Action Item	Description	To be completed By	Responsible Person
Comply with 2019 ASE Educ Foundation site certificatio...	Followup to site visit, November, 2019	12/10/2019	All faculty working together

Resource Request

Technology and Equipment — New

Description/Justification
New (gasoline) Vehicles, including vehicle(s) with ADAS (Advanced Driver Assistance Systems)

Estimated Cost
200000

Resource Request

Technology and Equipment — New

Description/Justification
Updated Diagnostic Equipment for late model vehicles

Estimated Cost
200000

Resource Request

Technology and Equipment — New

Description/Justification
Trainers to use in lab, so instructors can insert "bugs" into vehicles for students to diagnose

Estimated Cost
200000

Resource Request

Technology and Equipment — New

Description/Justification
Electric and Fuel Cell vehicles

Estimated Cost
300000

Resource Request

Technology and Equipment

New

Description/Justification
Computers for use in shop for students to access automotive information; current computers are outdated

Estimated Cost
50000

Resource Request

Personnel

Full-time Faculty

% Time
100

Description/Justification
Replacement for Ed Jaramillo, full time faculty who passed away while employed by Peralta

Estimated Annual Salary Costs
80000

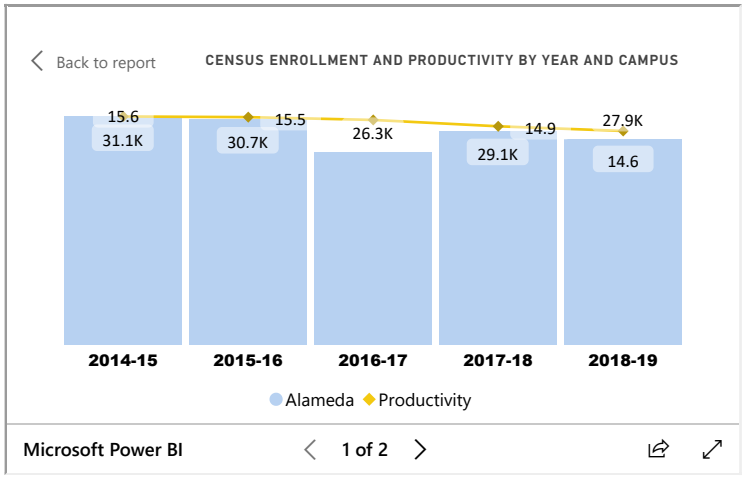
Estimated Annual Benefits Costs
25000

Total Costs
105000

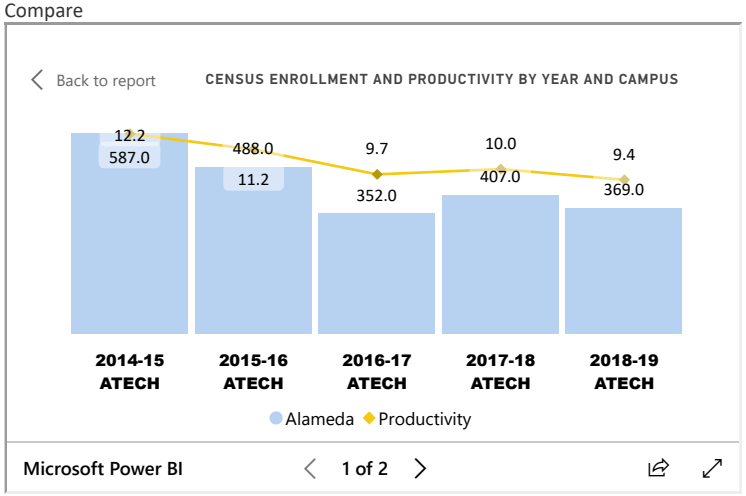
Enrollment Trends

College Level - Program and Department comparison

Chart



Compare



Using the Enrollment Trends dashboard filter to your college and subject area. Reflect on the enrollment trends over the past three years. How does the enrollment trend for your program compare to the overall college trend? What factors could be attributing to this trend?

It's pretty much the same as other CTE programs at Peralta and the same as Peralta overall --within statistical margins of error. As the overall unemployment rate in N. Cal has gone down, community college enrollments have fallen throughout the area. Our enrollment has also trended downwards.

Describe effective and innovative teaching strategies used by faculty to increase student learning and engagement.

Our program emphasizes "hands on" education and for over 50 years, students in Peralta's Auto Technology programs have always been interested and engaged. The best teaching strategy is for faculty to go to manufacturer training programs, for Peralta to purchase new vehicles for training our students as well as the latest diagnostic, testing and repair equipment, and then to set up hands-on labs where the students use that equipment to diagnose and repair those vehicles.

How is technology used by the discipline, department?

As much as we can afford it, we use the latest diagnostic and technical equipment which is used in industry.

How does the discipline, department, or program maintain the integrity and consistency of academic standards with all methods of delivery, including face to face, hybrid, and Distance Education courses?

We only have face-to-face classes. All are consistent, since all are reviewed by the ASE Educational Foundation every 2.5 (or 5) years, using their standards and using an evaluation team made up of local technicians and an Evaluation Team Leader.

In the boxes below, please add improvement actions and resource requests that are directly related to the questions answered in this section. If there are no improvement actions or resource requested in this area, leave blank.

Improvement Actions

Improvement Action

Improvement Action

Action Item	Description	To be completed By	Responsible Person
Vehicles	Purchase a newer fleet of vehicles for students to work on	6/13/2021	All faculty are equal co-chairs in Atech

Resource Request

Technology and Equipment

New

Description/Justification
Fleet of new vehicles, which cost about $40,000 each. 10 vehicles = $400,000

Estimated Cost
$400,000

The value should be a number.

Improvement Action

Action Item	Description	To be completed By	Responsible Person
Diagnostic Equipment	Late model vehicles required new diagnostic equipment. Students should learn on that equipment at COA	6/13/2021	All faculty are equal co-chairs in Atech

Resource Request

Technology and Equipment	New

Description/Justification
Latest diagnostic and repair equipment, including but not limited to scan tools, Advanced Driver Assistance System (ADAS) calibration and diagnostic tools, alignment capability for ADAS and self-driving vehicles

Estimated Cost
200000

Curriculum

Please review your course outlines of record to determine if they have been updated or deactivated in the past three years. Use the pull-down menus to identify courses that still need updating or deactivation and specify when your department will update each one, within the next three years.

Name	Last updated date	Semester and Year	To be updated on	To be deactivated on
ATECH 048AA - ATECH048AA		Spring 2019 - 20	6/13/2020 Improve my program	
ATECH 048AC - ATECH048AC		Spring 2019 - 20	6/13/2020 Improve my program	
ATECH 049 - Independent Study in ...	August, 26 2019 15:24:47	Spring 2019 - 20	6/13/2020 Improve my program	
ATECH 010 - Automotive Chassis	August, 22 2016 10:52:05	Spring 2019 - 20	6/13/2020 Improve my program	
ATECH 011 - Engines, Fuel and Igniti...	August, 22 2016 10:53:12	Spring 2019 - 20	6/13/2020 Improve my program	
ATECH 014 - ADVANCED ENGINE PE...	August, 11 2016 12:50:17	Spring 2019 - 20	6/13/2020 Improve my program	

ATECH 022 - Introduction to Auto M...	August, 22 2016 10:57:47	Spring 2019 - 20	6/13/2020 Improve my program
ATECH 023 - Automotive Air Conditi...	August, 22 2016 10:58:49	Spring 2019 - 20	6/13/2020 Improve my program
ATECH 015 - DRIVE TRAIN AND AUT...	August, 22 2016 10:55:45	Spring 2019 - 20	6/13/2020 Improve my program
ATECH 025 - Basic Clean Air Course ...	August, 22 2016 10:38:32	Spring 2019 - 20	6/13/2020 Improve my program
ATECH 026 - Introduction to Autom...	August, 22 2016 11:03:28	Spring 2019 - 20	6/13/2020 Improve my program
ATECH 027 - Smog Check II	August, 22 2016 11:04:53	Spring 2019 - 20	6/13/2020 Improve my program
ATECH 041 - ADVANCED ENGINE RE...	August, 22 2016 11:06:59	Spring	6/13/2019 Improve my program
ATECH 042 - Advanced Automotive ...	August, 22 2016 11:07:37	Spring 2019 - 20	6/13/2020 Improve my program
ATECH 045 - ADVANCED AUTOMOTI...	August, 22 2016 11:08:25	Spring 2019 - 20	6/13/2020 Improve my program
ATECH 234 - Introduction to Brakes, ...	August, 22 2016 11:16:04	Spring 2019 - 20	6/13/2020 Improve my program

ATECH 024A - Computer Controls a...	August, 22 2016 10:59:47	Spring 2019 - 20	6/13/2020 Improve my program
ATECH 040 - Advanced Automotive ...	August, 22 2016 11:06:10	Spring 2019 - 20	6/13/2019 Improve my program
ATECH 012 - Automotive Electrical ...	March, 21 2019 18:21:00	Spring 2019 - 20	6/13/2020 Improve my program
ATECH 021 - TRANSPORTATION TEC...	September, 26 2016 10:27:52	Spring 2019 - 20	6/13/2019 Improve my program

Please summarize your plans for curriculum improvement/development, including details on specific courses or programs you plan to improve/develop.

Update all course outlines as needed after comparing to ASE Educational Foudantion current standards.

In the boxes below, please add improvement actions and resource requests that are directly related to the questions answered in this section. If there are no improvement actions or resource requested in this area, leave blank.

Improvement Actions	No Actions/Requests

Instruction - Assessment

Student Learning Outcomes Assessment

List your Student Learning Outcomes. SLOs are specific, measurable statements of what students will know, be able to do, or be able to demonstrate when they complete a course. An SLO focuses on specific knowledge, attitudes, or behaviors that students will demonstrate or possess as a result of instruction.

Course	Student Learning Outcomes (SLO)	Last date Assessed	Planned Assessment Date	Attachments
ATECH 010 - Automotive Chassis	Disassemble and reassemble late model automotive brake, suspension and steering systems, using industry standard practices, manufacturer specifications and both standard and specialized tools as appropriate, including practicing all standard safety procedures.	6/13/2018	6/13/2021	

ATECH 010 - Automotive Chassis	Demonstrate competence and familiarity with automotive alignment, brake servicing and tire servicing equipment, including practicing all standard safety procedures.	6/13/2017	6/13/2020
ATECH 010 - Automotive Chassis	Apply critical thinking and problem solving skills in the process of diagnosing and repairing brake, suspension and steering systems, utilizing computer data bases and operating appropriate diagnostic equipment.	6/13/2019	6/13/2022
ATECH 011 - Engines, Fuel and Ignition Systems	Disassemble and reassemble a late model automotive engine, including fuel and ignition system, using industry standard practices, manufacturer specifications and both standard and specialized tools as appropriate, including practicing all standard safety procedures.	6/13/2017	6/13/2020
ATECH 011 - Engines, Fuel and Ignition Systems	Demonstrate competence and familiarity with basic and safe engine machining procedures for the servicing of valves, seats, guides, pistons and cylinders.	6/13/2019	6/13/2022
ATECH 011 - Engines, Fuel and Ignition Systems	Exercise critical thinking and problem solving skills in the process of diagnosing and repairing engines, fuel and ignition systems, utilizing computer data bases and operating appropriate diagnostic equipment.	6/13/2018	6/13/2021
ATECH 014 - ADVANCED ENGINE PERFORMANCE	Demonstrate an understanding of fuel control, ignition control and emission control systems, how they work, how they are tested, and the consequences to driveability and emissions when they fail or do not function properly.	6/13/2019	6/13/2022
ATECH 014 - ADVANCED ENGINE PERFORMANCE	Demonstrate familiarity with and competence doing onvehicle testing of fuel control, ignition control, and emission control systems, including all necessary safety precautions.	6/13/2017	6/13/2020
ATECH 014 - ADVANCED ENGINE PERFORMANCE	Apply critical thinking and problem solving skills in the process of diagnosing and repairing smog failures and engine driveability problems, utilizing computer data bases and appropriate diagnostic equipment.	6/13/2018	6/13/2021
ATECH 022 - Introduction to Auto Mechanics	Identify component parts of all basic automotive systems on a late model vehicle.	6/13/2017	6/13/2020
ATECH 022 - Introduction to Auto Mechanics	Demonstrate competence and familiarity with basic automotive maintenance tasks, specifically an oil change, brake inspection and tire rotation on a late model vehicle, including use of vehicle lifts and practicing all standard safety procedures.	6/13/2018	6/13/2021

ATECH 022 - Introduction to Auto Mechanics	Demonstrate the ability to properly fill out a repair order using the standards of the California Bureau of Automotive Repair, utilizing Basic Skills in Math and English as necessary, and referring as needed to computer data bases and relevant Technical Service Bulletins.	6/13/2019	6/13/2022
ATECH 023 - Automotive Air Conditioning	Demonstrate a theoretical understanding of the principles of refrigeration, as evidenced by the flow of refrigerant through an automotive air conditioning system.	6/13/2019	6/13/2022
ATECH 023 - Automotive Air Conditioning	Evacuate and recharge a late model automotive air conditioning system, using industry standard practices, manufacturer specifications and both standard and specialized tools as appropriate, including practicing all standard safety procedures.	6/13/2017	6/13/2020
ATECH 023 - Automotive Air Conditioning	Apply critical thinking and problem solving skills in the process of diagnosing and repairing automotive air conditioning systems, utilizing computer data bases and operating appropriate diagnostic equipment.	6/13/2018	6/13/2021
ATECH 015 - DRIVE TRAIN AND AUTOMATIC TRANSMISSIONS	Disassemble and reassemble an automatic and a manual transmission, a clutch and a differential using appropriate service literature; use industry standard practices; make appropriate measurements and determine corrective action; practice safety procedures.	6/13/2019	6/13/2022
ATECH 015 - DRIVE TRAIN AND AUTOMATIC TRANSMISSIONS	Demonstrate competence and familiarity in using appropriate tools for servicing automatic and manual transmissions, clutches and differentials.	6/13/2018	6/13/2021
ATECH 015 - DRIVE TRAIN AND AUTOMATIC TRANSMISSIONS	Apply critical thinking and problem solving skills in the process of diagnosing and repairing automatic transmission, clutches, differentials and manual transmission malfunctions.	6/13/2017	6/13/2020
ATECH 025 - Basic Clean Air Course Phase II	Demonstrate an understanding of emission control systems, how they work, how they are tested, and the consequences to driveability and emissions when they fail or do not function properly.	6/13/2017	6/13/2020
ATECH 025 - Basic Clean Air Course Phase II	Demonstrate familiarity with and competence doing onvehicle testing of emission control systems, including all necessary safety precautions.	6/13/2019	6/13/2022
ATECH 025 - Basic Clean Air Course Phase II	Apply critical thinking and problem solving skills in the process of diagnosing and repairing EGR and Catalytic converter failure problems, utilizing computer data bases and appropriate diagnostic equipment.	6/13/2018	6/13/2021

ATECH 026 - Introduction to Automotive Electrical Systems	Test, remove and replace late model automotive batteries, starters and alternators, using industry standard practices, manufacturer specifications and both standard and specialized tools as appropriate, including practicing all standard safety procedures.	6/13/2018	6/13/2021
ATECH 026 - Introduction to Automotive Electrical Systems	Demonstrate competence and familiarity in utilizing manufacturerâ€™s wiring diagrams to diagnose electrical systems and problems.	6/13/2017	6/13/2020
ATECH 026 - Introduction to Automotive Electrical Systems	Apply critical thinking and problem solving skills in the process of diagnosing and repairing electrical and electronic systems, utilizing computer data bases and operating appropriate diagnostic equipment.	6/13/2019	6/13/2022
ATECH 027 - Smog Check II	Demonstrate an understanding of oxygen sensors and air/fuel ratio sensors used in late model automotive computer control systems, how they work, how they are tested, and the consequences to driveability and emissions when they fail or do not function properly.	6/13/2019	6/13/2022
ATECH 027 - Smog Check II	Demonstrate familiarity with and competence using BAR 97 Emissions Dynamometer testing, including all necessary safety precautions.	6/13/2017	6/13/2020
ATECH 027 - Smog Check II	Apply critical thinking and problem solving skills in the process of diagnosing and repairing NOx emissions failure problems, utilizing computer data bases and appropriate diagnostic equipment.	6/13/2018	6/13/2021
ATECH 041 - ADVANCED ENGINE REPAIR	Disassemble and reassemble a minimum of three late model automotive engine and cooling systems on customer vehicles, using industry standard practices, manufacturer specifications and both standard and specialized tools as appropriate, including practicing all standard safety procedures.	6/13/2018	6/13/2021
ATECH 041 - ADVANCED ENGINE REPAIR	Demonstrate competence and familiarity with basic and safe engine machining procedures for the servicing of valves, seats, guides, pistons and cylinders, and perform one such service on customer vehicles.	6/13/2019	6/13/2022
ATECH 041 - ADVANCED ENGINE REPAIR	Exercise critical thinking and problem solving skills in the process of diagnosing and repairing engines, utilizing computer data bases and operating appropriate diagnostic equipment in the process of repairing customer vehicles.	6/13/2017	6/13/2020
ATECH 042 - Advanced Automotive Electronics	Diagnose and repair electrical system malfunctions on a minimum of six late model customer vehicles, utilizing manufacturer specifications and both standard and specialized tools as appropriate, including practicing all standard safety procedures.	6/13/2017	6/13/2020

ATECH 042 - Advanced Automotive Electronics	Demonstrate competence and familiarity with testing and diagnostic procedures on late model vehicles, utilizing scan tools, DVOMs and DSOs as appropriate, including practicing all standard safety procedures.	6/13/2019	6/13/2022
ATECH 042 - Advanced Automotive Electronics	Apply critical thinking and problem solving skills in the process of diagnosing and repairing electrical and electronic systems on a minimum of six customer vehicles, utilizing computer data bases and operating appropriate diagnostic equipment.	6/13/2018	6/13/2021
ATECH 045 - ADVANCED AUTOMOTIVE TRANSMISSIONS AND TRANSAXLES	Disassemble and reassemble clutches, differentials, manual and automatic transmissions using appropriate service literature; use industry standard practices; make appropriate measurements and determine corrective action; practice safety procedures.	6/13/2017	6/13/2020
ATECH 045 - ADVANCED AUTOMOTIVE TRANSMISSIONS AND TRANSAXLES	Demonstrate competence and familiarity in using appropriate tools for servicing manual and automatic transmissions, differentials and clutches and perform a minimum of six such services on customer vehicles.	6/13/2019	6/13/2022
ATECH 045 - ADVANCED AUTOMOTIVE TRANSMISSIONS AND TRANSAXLES	Apply critical thinking and problem solving skills in the process of diagnosing and repairing manual and automatic transmission, clutch and differential malfunctions and diagnosing problems with customer vehicles.	6/13/2018	6/13/2021
ATECH 234 - Introduction to Brakes, Alignment and Headlamp Aiming	Perform industry standard service on late model automotive brake, tire, alignment and headlamp aiming systems, using industry standard practices, manufacturer specifications and both standard and specialized tools as appropriate, including practicing all standard safety procedures.	6/13/2017	6/13/2020
ATECH 234 - Introduction to Brakes, Alignment and Headlamp Aiming	Demonstrate competence and familiarity with automotive alignment, brake servicing tire servicing and headlamp aiming equipment, including practicing all standard safety procedures.	6/13/2019	6/13/2022
ATECH 234 - Introduction to Brakes, Alignment and Headlamp Aiming	Apply critical thinking and problem solving skills in the process of diagnosing and repairing brake and alignment systems, utilizing computer data bases and operating appropriate diagnostic equipment.	6/13/2018	6/13/2021
ATECH 024A - Computer Controls and Fuel Injection	Demonstrate an understanding of the basic types of sensors, control units and actuators used in late model automotive computer control systems, how they work, how they are tested, and the consequences to driveability and emissions when they fail or do not function properly.	6/13/2019	6/13/2022

ATECH 024A - Computer Controls and Fuel Injection	Demonstrate familiarity with and competence using industry standard computer and fuel injection diagnostic equipment and testing techniques, including all necessary safety precautions.	6/13/2017	6/13/2020
ATECH 024A - Computer Controls and Fuel Injection	Exercise critical thinking and problem solving skills in the process of diagnosing and repairing automtive computer and fuel injection systems, utilizing computer data bases and appropriate diagnostic equipment.	6/13/2018	6/13/2021
ATECH 040 - Advanced Automotive Chassis	Disassemble and reassemble a minimum of three late model automotive brake, suspension and/or steering systems on customer vehicles, using industry standard practices, manufacturer specifications and both standard and specialized tools as appropriate, including practicing all standard safety procedures.	6/13/2018	6/13/2021
ATECH 040 - Advanced Automotive Chassis	Demonstrate competence and familiarity with basic and safe brake repair, alignment and tire service on all industry standard equipment, and perform a minimum of three such services on customer vehicles.	6/13/2017	6/13/2020
ATECH 040 - Advanced Automotive Chassis	Apply critical thinking and problem solving skills in the process of diagnosing and repairing braking, suspension, and steering systems, utilizing computer data bases and operating appropriate diagnostic equipment in the process of repairing customer vehicles.	6/13/2019	6/13/2022
ATECH 012 - Automotive Electrical & Electronic Systems	Test, remove and replace late model automotive batteries, starters and alternators, using industry standard practices, manufacturer specifications and both standard and specialized tools as appropriate, including practicing all standard safety procedures.	6/13/2018	6/13/2021
ATECH 012 - Automotive Electrical & Electronic Systems	Apply critical thinking and problem solving skills in the process of diagnosing and repairing electrical and electronic systems, utilizing computer data bases and operating appropriate diagnostic equipment.	6/13/2019	6/13/2022
ATECH 012 - Automotive Electrical & Electronic Systems	Electronic Diagnostic Testing Tools - Student will be familiar with the operation and use of DVOMs, DSOs, PicoScopes, Volt/Amp testers and other test equipment used to diagnose and repair late model vehicles.	6/13/2017	6/13/2020
ATECH 021 - TRANSPORTATION TECHNOLOGY PRINCIPLES	Research specifications, diagnostic information and repair instructions in technical service manuals and computer/online databases	6/13/2017	6/13/2020

ATECH 021 - TRANSPORTATION TECHNOLOGY PRINCIPLES	Identify common machine parts and fasteners; measure dimensions and thread pitch of threaded fasteners; read analog and digital gauges; read machinists rules graduated in millimeters and fractions of an inch; interpret technical information presented in graphical form: use conversion factors to convert between common metric system units and USCS system units of measurement	6/13/2019	6/13/2022
ATECH 021 - TRANSPORTATION TECHNOLOGY PRINCIPLES	Identify all major systems and their parts found on late model vehicles and use the physical principles learned in this course to describe their operation and diagnose problems	6/13/2018	6/13/2021

How has your department worked together on assessment? Provide examples on collaboration, leadership, planning exercises, and data analysis. What aspects of assessment work went especially well in your department and what improvements are most needed?

If you want to know what our department did on our review by the ASE Educational Foundation in early November, we have over 300 Mb of planning, review, photos, responses, etc. to the ASE Educational Foundation Standards. If you'd like to see it, I'll gladly give it to you on a flashdrive. Unfortunately, it's too big to attach here.

What were the most important things your department learned from assessment? If implementation of your action plans resulted in better student learning and/or changes in curriculum, detail the results

Our actual assessment comes in the form of our review (every 2.5 years) by the ASE Educational Foundation. We compare our program to the ASE Standards (https://www.aseeducationfoundation.org/resources). The standards change annually; we update our documentation every 2.5 years and every 5 years, we undergo a review by a trained Evaluation Team Leader (ETL) plus 2 or 3 local technicians. As far as we are concerned, Peralta assessment is essentially "busy work" for the benefit of ACCJC.

Give us an update on your Program Learning Outcomes (PLOs). A complete program assessment means all PLOs have been assessed for that program. Attach any evidence, i.e. reports from Task Stream or Curricunet Meta.

Program learning outcomes require data that we don't have access to. To assess a CTE program, Peralta would need to fund staff to keep track of students after they complete the program. We are looking forward to using Launchboard data for program assessment, but none is available tracking Atech graduates as they progress in the automotive field.

Does your department participate in the assessment of multidisciplinary programs?

No

If Yes, Describe your department's participation and what you learned from the assessment of the program that was applicable to your own discipline.

Does your department participate in your college's Institutional Learning Outcomes (ILOs) assessment?

No

If Yes, Please describe your departments participation in assessing Institutional Learning Outcomes.

What support does your department need from administrators, assessment coordinators and/or your campus assessment committee to continue to make progress in assessment of outcomes and implementation of action plans?

We have a great dean; Eva is 100% supportive of our departmen t

In the boxes below, please add improvement actions and resource requests that are directly related to the questions answered in this section. If there are no improvement actions or resource requested in this area, leave blank.

Improvement Actions

Improvement Action

Improvement Action

Action Item	Description	To be completed By	Responsible Person
Continue to meet ASE Education Foundation Certificatio...	Master Level Certification	1/13/2021	All faculty are department co-chairs; we all work together

Resource Request

Technology and Equipment

New

Description/Justification
Newer vehicles; updated equipment; better storage system for engines and transmissions

Estimated Cost
500000

Resource Request

Supplies

Instructional Supplies and Materials

Description/Justification
Annual supplies needed for CTE program

Estimated Cost
50000

Improvement Action

Action Item	Description	To be completed By	Responsible Person
Professional training	ASE Educ Foundation requires each faculty member to have 20 hours of manufacturer training each year	11/10/2021	All atech faculty are Dept co-chairs

Resource Request

Professional Development

Individual/personal PD needed

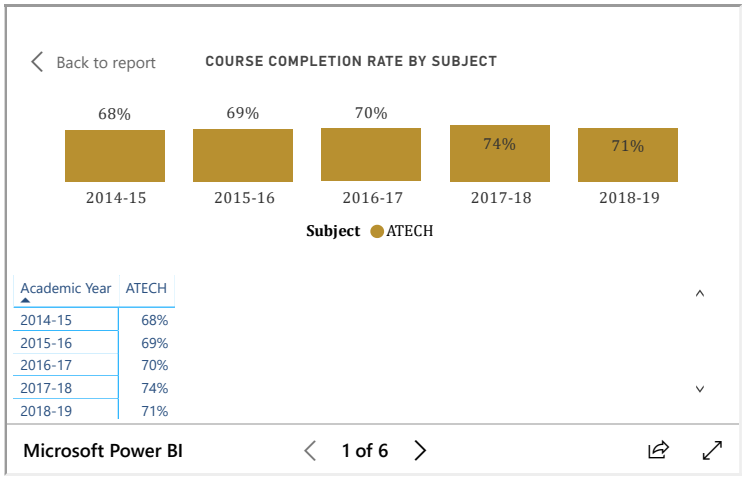
Description/Justification
Should be covered as part of Strong Workforce state funding

Estimated Cost
5000

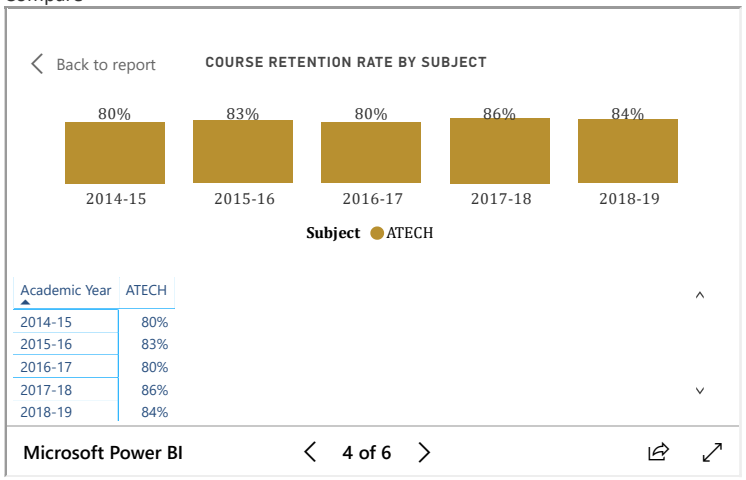
Course Completion

College Level - Program and Department comparison

Chart



Compare



Consider your course completion rates over the past three years (% of student who earned a grade of "C" or better).

Name	2016 - 17 Completion Rate (%)	2017 - 18 Completion Rate (%)	2018 - 19 Completion Rate (%)
ATECH 10 AUTOMOTIVE CHASSIS	64	63	79
ATECH 11 ENGINES/FUEL SYSTEMS	86	67	65
ATECH 12 ELEC/ELECTRONIC SYS	94	85	86
ATECH 14 ADV. ENGINE PERFORM.	67	81	82
ATECH 15 DRIVE TRAIN/TRANSMIS	71	80	82
ATECH 21 TRANS TECH PRINCIPLS	85	77	79
ATECH 22 INTRO AUTO MECHANICS	57	58	62
ATECH 23 AUTO AIR CONDITIONNG	77	91	100
ATECH 234 BRAKES/ALIGNMENT/HEADLAMP	38	46	33
ATECH 248AA Hybrid Vehicles	60	75	
ATECH 24A COMPUTER CONTROLS	80	100	89
ATECH 25 CLEAN AIR COURSE II	69	85	80
ATECH 26 INTRO AUTO ELECT SYS	69	88	43
ATECH 27 SMOG CHECK II	73	93	71
ATECH 40 ADV AUTO CHASSIS	80	100	
ATECH 41 ADV ENGINE REPAIR	100	100	90
ATECH 42 ADV AUTO ELECTRONICS	100	92	67
ATECH 45 ADV AUTO TRANSAXLES		75	100
ATECH 49 I/S- AUTO TECHNOLOGY	100	100	100

Use the filters on the top and right of the graphs to disaggregate your program or discipline data. When disaggregated, are there any groups whose course completion rate falls more than 3% points below the discipline average? If so, indicate yes and explain what your department is doing to address the disproportionate impact for the group.

Age	○ Yes ◉ No
Ethnicity	○ Yes ◉ No
Gender	○ Yes ◉ No
Foster Youth Status	○ Yes ◉ No
Disability Status	○ Yes ◉ No
Low Income Status	○ Yes ◉ No
Veteran Status	○ Yes ◉ No

Consider your course completion rates over the past three years by mode of instruction. What do you observe?

Select Course	2016 - 17 Completion Rate (%)	2017 - 18 Completion Rate (%)	2018 - 19 Completion Rate (%)
Face-to-Face			
Hybrid			
100% Online			
Dual Enrollment			
Day time			
Evening			

How do the course completion rates for your program or discipline compare to your college's Institution-Set Standard for course completion?

If Peralta had more than one Auto Tech program, it might be helpful to compare rates between them. But since we are Peralta's only program, any "standard" for course completion isn't a realistic benchmark for our program.

How do the department's Hybrid course completion rates compare to the college course completion standard?

We don't teach any hybrid classes

Are there differences in course completion rates between face to face and Distance Education/hybrid courses? If so, how does the discipline, department or program deal with this situation? How do you assess the overall effectiveness of Distance Education/hybrid course?

N/A

Describe the course retention rates over the last three years. If your college has an Institution-Set Standard for course retention, how does your program or discipline course retention rates compare to the standard?

See #1 above

What has the discipline, department, or program done to improve course completion and retention rates?

As long as we meet high industry standards, completion and retention rates will take care of themselves.

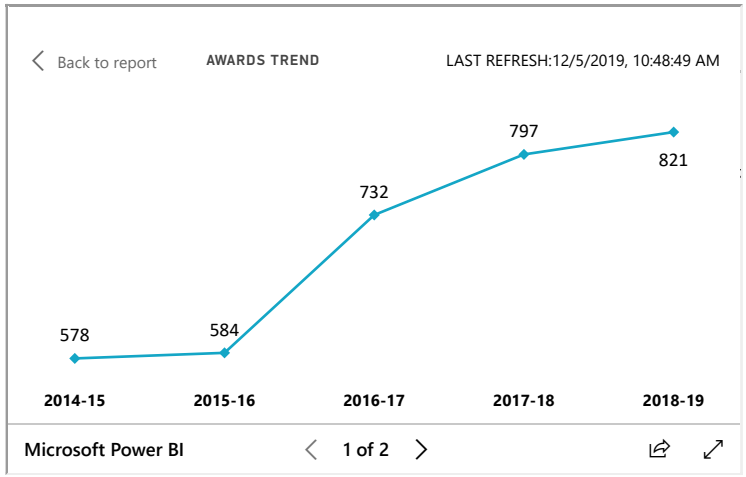
In the boxes below, please add improvement actions and resource requests that are directly related to the questions answered in this section. If there are no improvement actions or resource requested in this area, leave blank.

Improvement Actions	No Actions/Requests

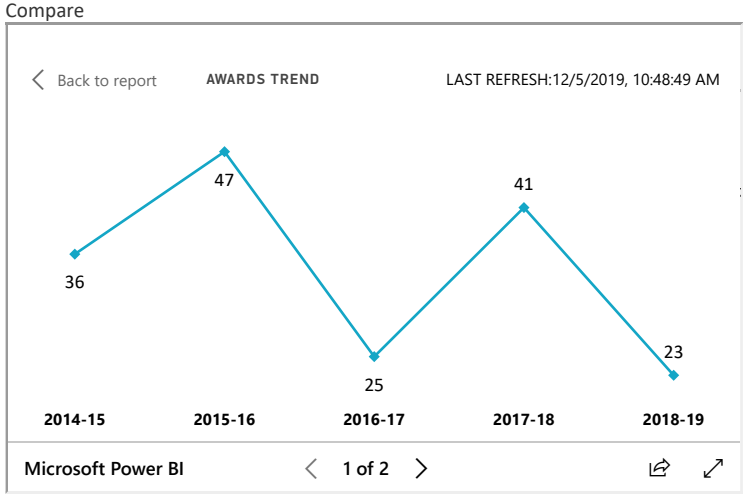
Degrees and Certificates

College Level - Program and Department comparison

Chart



Compare



What has the discipline, department, or program done to improve the number of degrees and certificates awarded? Include the number of degrees and certificates awarded by year, for the past three years.

2016-17 (25); 2017-18 (41); 2018-19 (23)

In Automotive Technology, unlike Nursing or Aviation or Dental, anyone can go to work in California repairing automobiles. It's not required that an automotive technician has a license (except a smog license to smog vehicles), passes an exam (except for smogging cars); or completes any classes or training (except or the smog program).
Students routinely drop out of the program to go to work full-time, both in automotive repair and in other areas (FedEx, UPS, Uber, etc.); they may come back a year or two later for a class; they may complete a degree or certificate program at some point in the process. Or they may simple take the classes they are interested in and not complete a degree or certificate.

In our opinion, if we teach to the highest standards and a student takes some of our courses and then goes to work in the automotive trade, that's a success. Whether they also complete a certificate or degree isn't nearly as important.

But what if they end up in another field altogether. I know personally of students who have taken our classes and have gone on to work at Genentech or went to medical school without completing a degree or certificate. But they loved their classes in automotive technology. Those are signs of student success, not any sort of failure

For that reason, we view the statistics on degrees/certificates

Over the next 3 years, will you be focusing on increasing the number of degrees and certificates awarded?

No

What is planned for the next 3 years to increase the number of certificates and degrees awarded?

Continue to keep up with and teach to the standards of the ASE Educational Foundation

In the boxes below, please add improvement actions and resource requests that are directly related to the questions answered in this section. If there are no improvement actions or resource requested in this area, leave blank.

Improvement Actions	No Actions/Requests

Engagement

Discuss how faculty and staff have engaged in institutional efforts such as committees, presentations, and departmental activities. Please list the committees that full-time faculty participate in.

All faculty are required to take at least 20 hours of training each year as part of ASE Educ Foundation certification requirements
All faculty are co-chairs of the department.
All faculty work on SLOs
All faculty work on ASE Educational Foundation assessment and certification
Rick Greenspan and Rufino Ramos are on one or more tenure review committees.

Discuss how faculty and staff have engaged in community activities, partnerships and/or collaborations.

All faculty work on ASE Educational Foundation assessment and certification
All faculty are required to take at least 20 hours of training each year as part of ASE Educ Foundation certification requirements

Discuss how adjunct faculty members are included in departmental training, discussions, and decision-making.

All part-time faculty are co-chairs of the department.
All part-time faculty are required to take at least 20 hours of training each year as part of ASE Educ Foundation certification requirements

In the boxes below, please add improvement actions and resource requests that are directly related to the questions answered in this section. If there are no improvement actions or resource requested in this area, leave blank.

Improvement Actions

Improvement Action

Improvement Action

Action Item	Description	To be completed By	Responsible Person
Training	Continue to support 20 hours of annual training by all faculty	6/30/2020	All faculty

Resource Request

Professional Development — Individual/personal PD needed

Description/Justification	Estimated Cost
Training by manufacturers (Ford, Honda, Subaru, etc.) at various training sites	5000

Resource Request Summary

Total Cost: $1815000
Total Resource Request: 12

Instruction
Personnel

Type	% Time	Description/Justification	Estimated Annual Salary Costs	Estimated Annual Benefits Costs	Total Costs
Full-time Faculty	100	Replacement for Ed Jaramillo, full time faculty who passed away while employed by Peralta	80000	25000	105000
		Sub-Total: $105000			

Professional Development

Type	Description/Justification	Estimated Cost
Individual/personal PD needed	Should be covered as part of Strong Workforce state funding	5000
	Sub-Total: $5000	

Technology and Equipment

Type	Description/Justification	Estimated Cost
New	New (gasoline) Vehicles, including vehicle(s) with ADAS (Advanced Driver Assistance Systems)	200000

New	Updated Diagnostic Equipment for late model vehicles	200000
New	Trainers to use in lab, so instructors can insert "bugs" into vehicles for students to diagnose	200000
New	Electric and Fuel Cell vehicles	300000
New	Computers for use in shop for students to access automotive information; current computers are outdated	50000
New	Latest diagnostic and repair equipment, including but not limited to scan tools, Advanced Driver Assistance System (ADAS) calibration and diagnostic tools, alignment capability for ADAS and self-driving vehicles	200000
New	Newer vehicles; updated equipment; better storage system for engines and transmissions	500000

Sub-Total: $1650000

Supplies

Type	Description/Justification	Estimated Cost
Instructional Supplies and Materials	Annual supplies needed for CTE program	50000

Sub-Total: $50000

Facilities

No Resources found for this category

Library

No Resources found for this category

Other

No Resources found for this category

Engagement

Personnel

No Resources found for this category

Professional Development

Type	Description/Justification	Estimated Cost
Individual/personal PD needed	Training by manufacturers (Ford, Honda, Subaru, etc.) at various training sites	5000

Sub-Total: $5000

Technology and Equipment

No Resources found for this category

Supplies

No Resources found for this category

Facilities

No Resources found for this category

Library

No Resources found for this category

Other

No Resources found for this category