**Programs Offered for 2022-2023**

*As of 01/2022: Construction, Culinary, Diesel, Machining*

Courses are for Seniors and Juniors (Seniors get priority). CTECAF will run Periods 1-6 for 2022-2023 with double period blocks (1-2, 3-4, 5-6)

**Construction-**The purpose of the Residential & Commercial Construction Program is to prepare students for:

* Employment within the construction field with knowledge of general practices within the construction industry, such as residential and commercial building.
* Entry level employment and/or placement into a trade union in the specialized trades (e.g., electrician, carpenter, plumbing etc.).
* Learned skills may include framing, electrical, plumbing, weatherization, blueprint reading, drywall, tile setting, roofing and more.
* Introduction to heavy equipment operation (Backhoe, Skid Steer, Mini Excavator).
* Transition to Union Apprenticeship, Cuesta Community College Construction Technology Program or Alan Hancock College Architecture Program.
* Transition to a four-year university to study construction, design, architecture or equivalent with sound hands on experience and a great foundational understanding.
* Certifications:
  + OSHA 10 Safety Certification
  + NCCER Craft Certification in one Trade

**Culinary**- The purpose of the Culinary Program is to prepare students for further study in Culinology at AHC or a university. In this program students apply culinary techniques, food science technology and nutritional science principles to the production of quality food.

* A variety of entry-level positions involving food preparation, line cook, entry level food and beverage service positions.
* Through further study skills are transformed into careers such as corporate executive chefs, directors for food research and development, flavorists, food scientist/technologists, menu development professionals, product assurance/development.
* The Culinary Program @ CTE is designed to cover three AHC courses: AHC CA 119 Intro to the Hospitality Industry, AHC CA 124 Sanitation, Safety & Equipment, AHC CA 120 Principles of Foods 1
* Transition to Alan Hancock for further study towards an AA in Culinology or various Certificates.
* Transition to University Program
* Certifications:
  + OSHA 10 Safety Certification
  + TBD

**Diesel-** The purpose of the Diesel Program is to prepare students for:

* A variety of entry-level positions involving medium/heavy duty diesel repair. These positions may include work on over the road trucks, tractors, construction equipment and more generally in the diesel sales, repair, and support industry. Local partners include Quinn CAT, John Deere, and Santa Maria Truck Center (Freightliner/Mercedes).
* Learned skills may include the ability to diagnose and repair diesel engines.
* Transition to SBCC for a Bus/Truck Mechanic or AHC Automotive program.
* Transition to University Program with skills and ability to take on mechanical classes.
* Certifications:
  + OSHA 10 Safety Certification
  + Level 1 ASCE Medium/Heavy Duty Diesel Repair
  + Automotive HVAC Certification
  + Ability to earn certification through self-paced instruction with: CAT and/or Freightliner/Mercedes

**Machining-** The purpose of the Manufacturing and Forming Program is to prepare students for:

* A variety of entry-level positions in a manufacturing environment. These positions may include manual machine operator, computer numerical control (CNC) operator, computer aided drafting and manufacturing (CAD/CAM) designer, manufacturing generalist or programmer.
* Learned skills may include the ability to operate conventional and computer numerical controlled (CNC) machinery, program CNC machinery, operate various CAD/CAM systems and interpret blueprints, material handling and quality control.
* The Machine Shop curriculum is three AHC courses: AHC SolidWorks 113, AHC MT116 Master Cam and AHC MT109 Survey of Machining.
* Transition to AHC directly into their Machining & Manufacturing Associates of Science Degree Program.
* Transition to Cal Poly Engineering Program with skills and ability to take on Freshmen machining classes with confidence.
* Certifications:
  + OSHA 10 Safety Certification
  + Haas CNC Mill Operator Certification
  + Solid Works