



# AZ Construction Career Days

# Association For Construction Career Development (ACCD)

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# **MISSION STATEMENT**

To Support and Promote the Construction Industry Through Education and Employment Non-Profit 501(c)3



For more than 20 years the Arizona Department of Education has been both a supporter and a sponsor of the Association of Construction Career Development.

Together we have helped forge strong relationships in support of Career and Technical Education opportunities that effectively serve both students and Arizona's construction industry.

I sincerely appreciate the work of AZCCD, look forward to their events, and wish all students the best in pursuing exciting and rewarding careers.

Tom Horn – Superintendent of Public Instruction
- Arizona Department of Education

SPECIAL THANKS TO ALL OF OUR Volunteers, Sponsors, Exhibitors and Schools

Without you, AZCCD wouldn't be the success that it is!

# Table of Contents:

Trade Descriptions6
Joint Technical Education District 25
CTE- Post Secondary Opportunities 28
Industry Earnings, Demand for Workers 36
Arizona Trade Associations 44



"The Arizona Department of Emergency and Military Affairs, with more than 8,300 Citizen-Soldiers, Airmen, and civilian workforce, is proud to host the 2022 Arizona Construction Career Days here at Papago Park Military Reservation. We welcome these young adults, our community partners, employers, and educators to our facility so they can conduct this year's event. As a prior college professor and a lifelong academic, I am passionate about investing in access to education and vocational opportunities. Providing Arizona's young adults an opportunity to meet with representatives of the construction sector exposes them to emerging technologies. internships, higher education pathways, and service in the Arizona National Guard. I want to thank our community partners for their support of the men and women of Arizona National Guard and the opportunity to motivate Arizona's youth to help construct a better tomorrow."

-Major General Kerry L Muehlenbeck Director of Arizona's Department of Emergency and Military Affairs



"A strong economy is dependent on transportation infrastructure and the construction industry is a tremendous part of ensuring we have quality and well-constructed roads and bridges. This type of construction requires skilled workers, yet the numbers of those entering the field is declining. Construction careers in road and bridge building can be very rewarding and productive. The Arizona Construction Career Days event is just one way to learn about the excellent opportunities available in highway construction. The Federal Highway Administration is a strong ally of the Career Days event. We believe events of this nature provide valuable insight regarding construction careers and expand the knowledge of those entering the workforce. The Arizona Division of the Federal Highway Administration is also very pleased to sponsor the Arizona Department of Transportation's Construction Academy. The Construction Academy is a training program providing access to employment opportunities in the highway construction industry. I encourage all to consider careers in the highway construction Industry. Highway construction careers can be very satisfying plus you are directly contributing to this nation's economy."

-Karla S. Petty Federal Highway Administration, Arizona Division Administrator



"It is no mystery that a strong economy in Arizona is predicated on an equally robust, well-educated workforce. Our needs will only continue to grow as demand from future growth and the loss of our senior level employees with key institutional knowledge will create a gap. It is incumbent on the construction aggregate supply industry to support (CTE), career technical training programs, internships and illuminating opportunities in our industry sector. Most of all, we must support critical programs such as the Arizona Construction Career Days in order to bridge that gap. The Arizona Rock Products Association and its members are grateful for the efforts of the AZCCD staff and are honored to be a part of this tremendous annual event."

-Steve Trussell
Executive Director of the Arizona Rock Products Association
and Arizona Mining Association



# Welcome to a Career in Construction!

The Association for Construction Career Development (ACCD) is delighted to have you participate and share in Arizona Construction Career Days! We want to thank our community partners and industry leaders for all the support over the years. AZCCD goal remains intact to ensure the construction work shortage utilizes its largest resource, our Arizona High School students and our National Guard Veterans.

Our Career Guide offers insight into the various educational pathways such as Career and Technical Education (CTE), apprenticeship training, along with two-year and four-year college programs and contractors who are currently looking to hire employees.

Construction is an honorable career path, fostering values of dedication, excellence and pride in workmanship "For a job well done!"

Prepare yourself to be challenged, excited and inspired by the spirit of Arizona Construction Career Days and our leaders. Together our partnerships will yield the outcome to create the Construction Science Professionals "To Build Tomorrow's Workforce Today!"

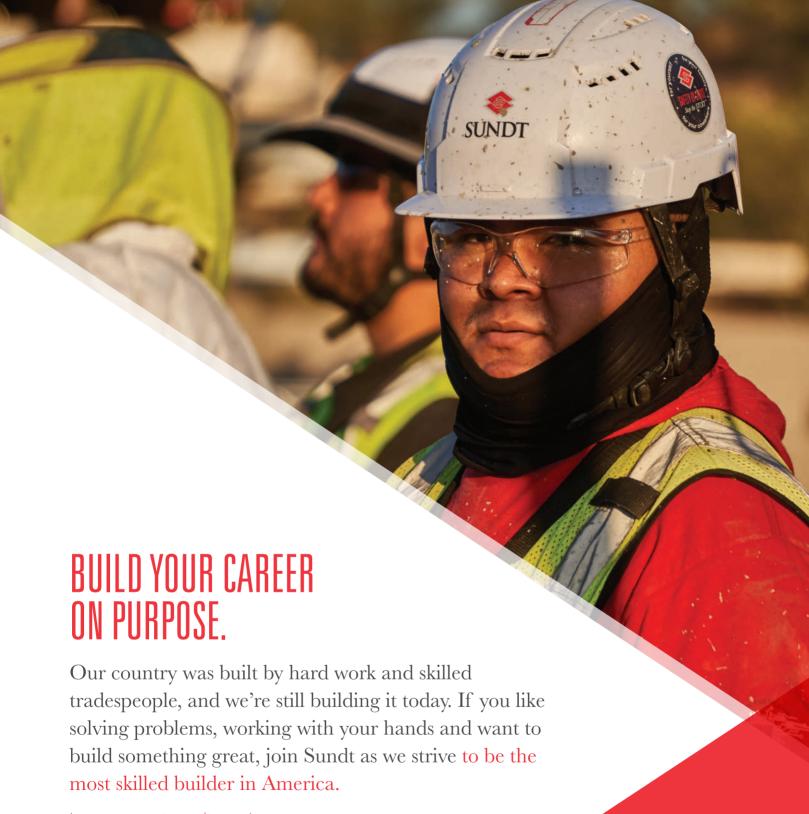
Best of Luck, Rose Ann Canizales President Association for Construction Career Development Non- Profit 501(c)3



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# **Trade Descriptions**

This section is a glossary to help give you a better understanding of what each trade is. We have not touched on every trade here, but have given you the most widely known trades used everyday in the construction industry.



**ARCHITECT:** An architect is a person trained in the planning, design and oversight of the construction of buildings. To practice architecture means to offer or render services in connection with the design and construction of a building, or group of buildings and the space within the site surrounding the buildings, that have as their principal purpose human occupancy or use.

Professionally, an architect's decisions affect public safety, and thus an architect must undergo specialized training consisting of advanced education and an internship for practical experience to earn a license to practice architecture. The practical, technical, and academic requirements for becoming an architect vary by jurisdiction.

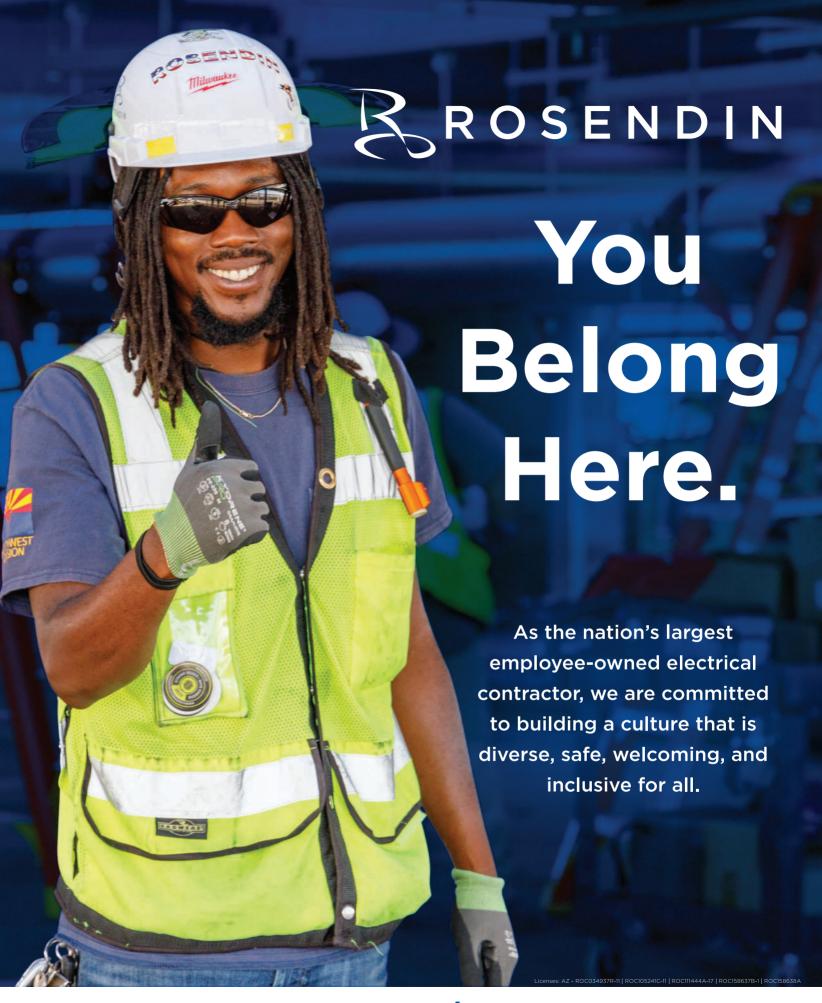
Architecture is a business in which technical knowledge, management, and an understanding of business are as important as design. An architect accepts a commission from a client. The commission might involve preparing feasibility reports, building audits, the design of a building or of several buildings, structures, and the spaces among them.

Architects prepare the technical or "working" documents (construction drawings and specifications), usually coordinated with and supplemented by the work of a variety of disciplines [i.e., with varied expertise like mechanical, plumbing, electrical, civil, structural, etc.] Engineers for the building services and that are filed for obtaining permits (development and building permits) that require compliance with building, seismic, and relevant federal and local regulations. These construction drawings and specifications are also used for pricing the work, and for construction.

Education and Training: To become a registered architect in Arizona, students typically will require a high school diploma and a bachelors 4 year degree. To work in many other states, a professional 5 year degree or masters is required. After graduation, architects-in-training complete 3 years of internship and must successfully pass their registration exams to become a Registered Architect.

**CARPENTER:** A carpenter constructs, erects, installs, and repairs structures and fixtures made from wood, metal and other materials. Carpenters are involved in many different kinds of construction, from the building of highways, bridges, houses, schools, hospitals and commercial buildings. Each carpentry task is somewhat different, but most involve the same basic steps. Working from blueprints or instructions from supervisors, carpenters first do the layout—measuring. marking, and arranging materials—in accordance with local building codes. They cut and shape wood, metal, plastic, fiberglass, or drywall using hand and power tools, such as chisels, planes, saws, drills, and sanders. They then join the materials with nails, screws, staples, or adhesives. In the last step, carpenters do a final check of the accuracy of their work with levels, rules, plumb bobs, framing squares, and surveying equipment, and make any necessary adjustments. Some materials come prefabricated, allowing for easier and faster installation. Carpenters may do many different carpentry tasks, or they may specialize in one or two. Carpenters who remodel homes and other structures, for example, need a broad range of carpentry skills. As part of a single job, they might frame walls and partitions, put in doors and windows, build stairs, install cabinets and molding, and complete many other tasks. Well-trained carpenters are able to switch from residential building to commercial construction or remodeling work, depending on which offers the best work opportunities.







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# **LOCATIONS**

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# **LICENSES**

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- CR-67 Low Voltage Communication Systems | License No 15587<sub>1</sub>
- CR-11 Electrical | License No 326916
- CR-67 Low Voltage Communication Systems | License No 296156
- A General Engineering / CA | License No 1077870

# **Trade Descriptions Continued**

# **CARPENTER (CONT.)**

Education and Training: Learning to be a carpenter can start in high school. Classes in English, algebra, geometry, physics, mechanical drawing, blueprint reading, and construction tech will prepare students for the further training they will need. After high school, there are a number of different ways to obtain the necessary training. Some people get a job as a carpenter's helper, assisting more experienced workers. At the same time, the helper might attend a trade or vocational school, or community college to receive further trade-related training and eventually become a carpenter. Some will attend formal apprenticeship programs. These programs combine on-the-job learning with related classroom instruction. Apprentices usually must be at least 18 years old and meet local requirements. Apprenticeship programs usually last 4 years with 2,000 OJL hours and 144 class hours per year.

# **CONCRETE FORM BUILDER:** A Concrete

Form Builder works for large construction contractors or specialty contractors. They perform tasks, such as constructing wooden job built or patented forms for pouring concrete for tunnels, bridges, sewer construction projects along with building forms for buildings such as hospitals, schools, commercial and industrial buildings. The forms built are used to support the concrete that is going to be poured for walls, columns, slabs, foundations and footings.

Education and Training: There are a number of different ways to obtain the necessary training. Some people get a job as a helper or labor, assisting more experienced workers. At the same time, the helper might attend a formal apprenticeship program. This program combines on-the-job learning with related classroom instruction. Apprentices usually must be at least 18 years old and meet local requirements. Apprenticeship programs usually last 2 to 3 years with 2,000 OJL hours and 144 class hours per year.

# **CONSTRUCTION MANAGER: A**

construction manager is in charge of the overall planning, coordination and control of a project from inception to completion aimed at meeting a client's

requirements in order to produce a functionally and financially viable project that will be completed on time within authorized cost and to the required quality standards. Project management is the process by which a project is brought to a successful conclusion.

The Construction Management Association of America (CMAA) (a primary US construction management certification and advocacy body) says the 120 most common responsibilities of a Construction Manager fall into the following 7 categories: Project Management Planning, Cost Management, Time Management, Quality Management, Contract Administration, Safety Management, and CM Professional Practice which includes specific activities like defining the responsibilities and management structure of the project management team, organizing and leading by implementing project controls, defining roles and responsibilities and developing communication protocols, and identifying elements of project design and construction likely to give rise to disputes and claims.

### **Construction Manager Functions**

The functions of construction project management typically include the following:

- 1. Specifying project objectives and plans including delineation of scope, budgeting, scheduling, setting performance requirements, and selecting project participants.
- 2. Maximizing resource efficiency through procurement of labor, materials and equipment.
- 3. Implementing various operations through proper coordination and control of planning, design, estimating, contracting and construction in the entire process.
- 4. Developing effective communications and mechanisms for resolving conflicts.

The academic field of construction management encompasses a wide range of topics. These range from general management skills, to management skills specifically related to construction, to technical knowledge of construction methods and practices. There are many schools offering Construction Management programs, including some that offer a Masters and doctoral degree.



Research shows that 53% of the construction industry will retire by 2036. With the industry already struggling to fill critical skilled positions, now is an excellent time to explore construction.

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# **Trade Descriptions Continued**

maintains all of the electrical and power systems for our homes, businesses, and factories. They install and maintain the wiring and control equipment through which electricity flows. They also install and maintain electrical equipment and machines in factories and a wide range of other businesses. When installing wiring, electricians use hand tools such as conduit benders, screwdrivers, pliers, knives, hacksaws, and wire strippers, as well as power tools such as drills and saws. Later, they use ammeters, ohmmeters, voltmeters, harmonics testers, and other equipment to test connections and ensure the compatibility and safety of components.

Education and training: Apprenticeship programs combine paid on-the-job training with related classroom instruction. Apprenticeship programs usually last 4 years. Each year includes at least 144 hours of classroom instruction and 2,000 hours of on-the-job learning. On the job, apprentices work under the supervision of experienced electricians. Before entering an apprenticeship program, all apprentices need a high school diploma or a General Equivalency Diploma (G.E.D.).

**ENGINEER:** An engineer is a professional practitioner of engineering, concerned with applying scientific knowledge, mathematics and ingenuity to develop solutions for technical and practical problems. Engineers design materials, structures, machines and systems while considering the limitations imposed by practicality, safety and cost.

Engineers are grounded in applied sciences, and their work in research and development is distinct from the basic research focus of scientists. The work of engineers forms the link between scientific discoveries and their subsequent applications to human needs.

During the engineering design process, the responsibilities of the engineer may include defining problems, conducting and narrowing research, analyzing criteria, finding and analyzing solutions, and making decisions. Much of an engineer's time is spent on researching, locating, applying, and transferring information.

Engineers must weigh different design choices on their merits and choose the solution that best matches the requirements. Their crucial and unique task is to identify, understand, and interpret the constraints on a design in order to produce a successful result.





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## **HEAVY EQUIPMENT OPERATOR:**

Heavy Equipment Operators use machinery to move construction materials, earth, and other heavy materials at construction sites and mines. They operate equipment that clears and grades land to prepare it for construction of roads, buildings, and bridges, as well as airport runways, power generation facilities, dams, levees, and other structures. They use machines to dig trenches for utilities, and hoist heavy construction materials.

Construction equipment operators also operate machinery that spreads asphalt and concrete on roads and other structures. Construction equipment is more technologically advanced than it was in the past. For example, global positioning system (GPS) technology is now used to help with grading and leveling. They operate excavation and loading machines equipped with scoops, shovels, or buckets that dig sand, gravel, earth, or similar materials and load it into trucks or onto conveyors. In addition to operating bulldozers, they operate trench excavators, road graders, and similar equipment. Sometimes, they drive and control industrial trucks or tractors equipped with forklifts or booms for lifting materials or with hitches for pulling trailers.

Education and Training: It is generally accepted that formal training provides more comprehensive skills. Some construction equipment operators train in formal operating engineer apprenticeship programs; because apprentices learn to operate a wider variety of machines

than do other beginners, they usually have better job opportunities. Apprenticeship programs consist of 3 years and 5,000 hours, of paid on-the-job learning together with 144 hours of related classroom instruction each year.

## **HEAVY EQUIPMENT MECHANIC:**

Heavy Equipment Mechanics are indispensable in the construction industry. Heavy Equipment Service Technicians and Mechanics repair and maintain engines. hydraulics, transmission, and electrical systems for this equipment. Cranes, bulldozers, loaders, motor graders, back hoes and excavators are all examples of heavy equipment that require such service. They service fuel, brake, and transmission systems to ensure peak performance, safety, and longevity of the equipment. Maintenance checks and comments from equipment operators usually alert technicians to problems. After locating the problem, these technicians rely on their training and experience to use the best possible technique to solve it.

With many types of modern equipment, technicians can use diagnostic computers to diagnose components needing adjustment or repair. If necessary, they may partially dismantle affected components to examine parts for damage or excessive wear. Then, using handheld tools, they repair, replace, clean, and lubricate parts as necessary.



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# **Trade Descriptions Continued**

### **HEAVY EQUIPMENT MECHANIC**

**CONT:** In some cases, technicians re-calibrate systems by typing codes into the onboard computer. After reassembling the component and testing it for safety, they put it back into the equipment and return the equipment to the field.

Education and Training: High school courses in automobile repair, physics, chemistry, and mathematics provide a strong foundation for a career as a service technician or mechanic. After high school, those interested in heavy equipment repair can choose to attend 2 year programs at community colleges or vocational schools that offer diesel technology or heavy equipment mechanics.

High school graduates can also go through formal apprenticeship training. The apprenticeship program consists of 3 years and 6,000 hours, of paid on-the-job learning together with 144 hours of related classroom instruction each year.

**HVAC TECHNICIAN:** Heating, ventilation, air-conditioning, and refrigeration systems are known as HVAC or HVACR. An HVAC system allows building residents to provide a comfortable, climate controlled environment. The installers and mechanics for an HVAC system are called technicians. An HVAC technician will be trained in installation and maintenance, but may specialize in one or the other. HVAC technicians can also choose an equipment specialty, such as

commercial refrigeration, hydroponics, or solar panels. HVAC systems consist of hundreds of electrical, electronic, and mechanical parts. Depending upon the day, an HVAC technician may be maintaining a system, diagnosing and repairing problems, or installing and replacing components or entire systems. Depending upon the season, HVAC technicians will perform additional maintenance or upgrades on out of season equipment. For example, in the summer, heating systems will undergo performance checks and regular maintenance to ensure their readiness for the winter.

Education and Training: A majority of HVAC technicians receive their training from community colleges, technical or trade schools, or the United States armed forces. Training can take between 6 months to 2 years from each element of study (heating, air conditioning, refrigeration). Standards for HVAC training are set by three accrediting organizations. These agencies are HVAC Excellence, the National Center for Construction Education and Research (NCCER), and the Partnership for Air Conditioning, Heating, and Refrigeration Accreditation (PHARA). Apprenticeships are another route an HVAC technician can take. An apprenticeship will usually run between 3 and 5 years, and require a qualified mentor. Apprentices need a high school diploma at the least. An apprenticeship will combine hands-on learning of at least 2,000 clock hours per vear and 144 clock hours of classroom instruction. After completion, an apprentice will be considered a skilled trade's worker.



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# **Trade Descriptions Continued**

**IRONWORKER:** An ironworker is a tradesman (man or woman) who works in the ironworking industry. Ironworkers erect, or even dismantle, the structural steel framework of pre-engineered metal buildings, single and multi-story buildings, stadiums, arenas, hospitals, towers, wind turbines, and bridges. Ironworkers assemble the structural framework in accordance with engineered drawings. Ironworkers also unload, place and tie reinforcing steel bars (rebar) as well as install post-tensioning systems, both of which give strength to the concrete used in piers, footings, slabs, buildings and bridges. Ironworkers load, unload, place and set machinery and equipment and operate power hoists, forklifts, and aerial lifts. They unload, place and fasten metal decking, safety netting and edge rails to facilitate safe working practices. Ironworkers finish buildings by erecting curtain wall and window wall systems, pre-cast concrete and stone, stairs and handrails, metal doors, sheeting and elevator fronts. Ironworkers perform all types of industrial maintenance as well.

**MASON:** A mason undergoes comprehensive training, both in the classroom and in the working environment. Hands-on skill is complemented by intimate knowledge of each stone type, its application and best uses, and how to work and fix each stone in place. The mason may be skilled and competent to carry out one or all of the various branches of stonemasonry. In some areas the trend is towards specialization, in other areas towards adaptability. Masons use all types of natural stone: igneous, metamorphic and sedimentary;

while some also use artificial stone as well.

# **PLUMBERS AND PIPEFITTERS: Most**

people are familiar with plumbers who come to their home to unclog a drain or fix a leaking toilet. Plumbers and pipefitters install, maintain, and repair many different types of pipe systems. Some of these systems move water from reservoirs to municipal water treatment plants and then to residential, commercial, and public buildings.

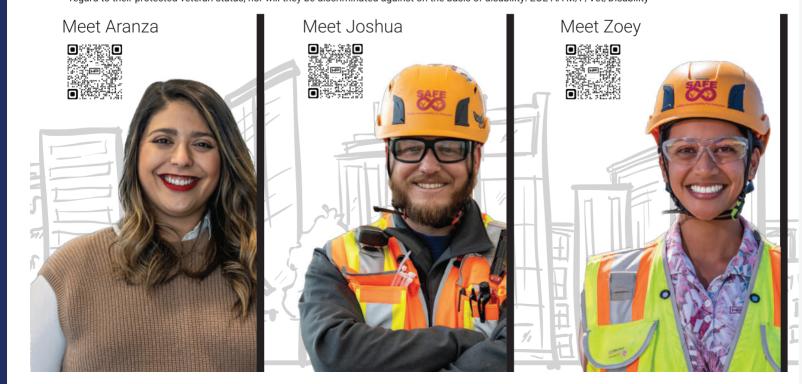
Other systems dispose of waste, supply gas to stoves and furnaces, or provide for heating and cooling needs. Pipe systems in power plants carry the steam that powers huge turbines. Pipes also are used in manufacturing plants to move material through the production process. Specialized piping systems are very important in both pharmaceutical and computer-chip manufacturing. Although plumbing and pipefitting are sometimes considered a single trade, workers generally specialize in one area. Plumbers install and repair the water, waste disposal, drainage, and gas systems in homes and commercial and industrial buildings. Plumbers also install plumbing fixtures—bathtubs, showers, sinks, and toilets—and appliances such as dishwashers, waste disposers, and water heaters. Pipefitters install and repair both high-pressure and low-pressure pipe systems used in manufacturing, in the generation of electricity, and in the heating and cooling of buildings. They also install automatic controls that are increasingly being used to regulate these systems.



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# **Trade Descriptions Continued**

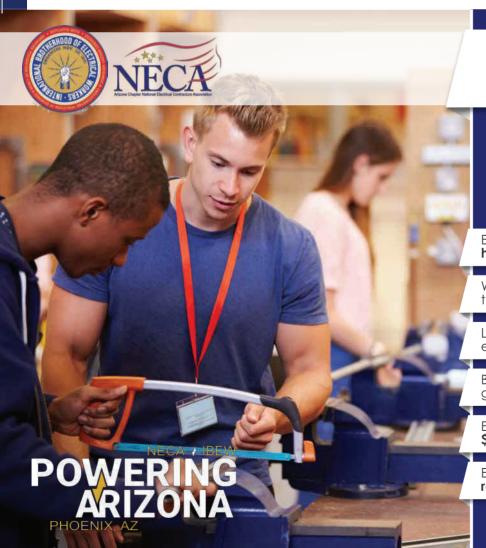
# PLUMBERS AND PIPEFITTERS (CONT):

Education and Training: Plumbers and pipefitters enter into the occupation in a variety of ways. Most plumbers and pipefitters get their training through apprenticeships or in technical schools and community colleges. Apprenticeships consist of 4 or 5 years of paid on-theiob learning and at least 144 hours of related classroom instruction per year. Classroom subjects include drafting and blueprint reading, mathematics, applied physics and chemistry, safety, and local plumbing codes and regulations. On the job, apprentices first learn basic skills, such as identifying grades and types of pipe, using the tools of the trade, and unloading materials safely. As apprentices gain experience, they learn how to work with various types of pipe and how to install different piping systems and plumbing fixtures. Apprenticeship gives trainees a thorough knowledge of all aspects of the trade. Although most plumbers and pipefitters are trained through apprenticeships, some still learn their skills informally on the job or by taking classes on their own. Apprenticeship programs generally provide the most comprehensive training available for these jobs.

**PLASTERER:** A plasterer is a tradesman who works with plaster, such as forming a layer of plaster on an interior wall or plaster decorative moldings on ceilings or walls. The process of creating plasterwork, called plastering, has been used in building construction for centuries

### **QUALITY CONTROL LAB TECH:**

A Quality Control Lab Technician collects samples of aggregate products from trucks, stockpiles, and conveyor belts. Tests samples for conformance to specifications using appropriate laboratory equipment and in accordance with established standard operating and testing procedures. Inspects stockpiles, pit, plant, load out and customer trucks on a regular basis to ensure product conformance to specifications. Reports results of tests and inspections to the production supervisor, plant manager and customer as directed. Completes and maintains reports and documentation of all testing and inspection performed as required by regulations and customer agreements. Maintains communication with customers, salespersons and production personnel as to the compliance of products and resolution of issues. Complies with all environmental, health, safety & training policies, procedures and requirements.





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Do not pass up on these opportunities thinking, "it's just construction."



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# **Trade Descriptions Continued**

**ROOFER:** A roofer specializes in roof construction, concentrating on the application of materials that water proof and / or weather proof buildings, designed material—as a substrate for the roofing materials to be installed on. The rafters, beams, and trusses are the frame or skeleton for the roof to be built upon. Naturally, a roofer must not be scared of heights and have good balance as well as carpentry skills. In Australia this type of carpenter is called a roof carpenter and in that country a roofer is someone who puts on the roof cladding (tiles, tin, etc.). In the USA a well trained roofer is called a journeyman. In California, if a journeyman wishes and has three consecutive years working in the field, he is eligible to pass a state test for a contractors license.

**TRADESMAN:** A tradesman is a skilled manual worker in a particular trade or craft. Economically and socially, a tradesman's status is considered between a laborer and a professional, with a high degree of both practical and theoretical knowledge of their trade. In cultures where professional careers are highly prized there can be a shortage of skilled manual workers, leading to lucrative niche markets in the trades.

A tradesman begins as an apprentice, but the apprenticeship is carried out partly through working for a tradesman and partly through an accredited trade school for a definite period of time (usually around 4 years), after which he/she is fully qualified.

**WELDER:** A welder (also weldor, which term distinguishes the tradesman from the equipment used to make welds) is a tradesman who specializes in welding materials together. The materials to be joined can be metals (such as steel, aluminum, brass, stainless steel etc.) or varieties of plastic or polymer. Welders typically have to have good dexterity and attention to detail, as well as some technical knowledge about the materials being joined and best practices in the field.











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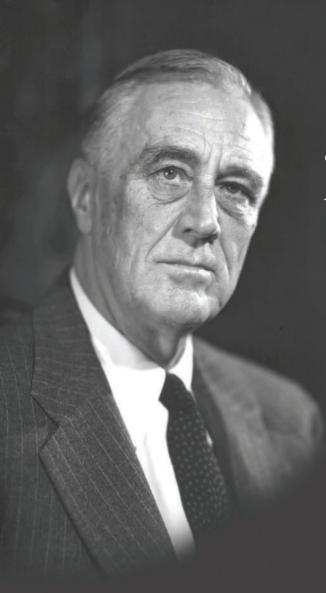


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Franklin D. Roosevelt



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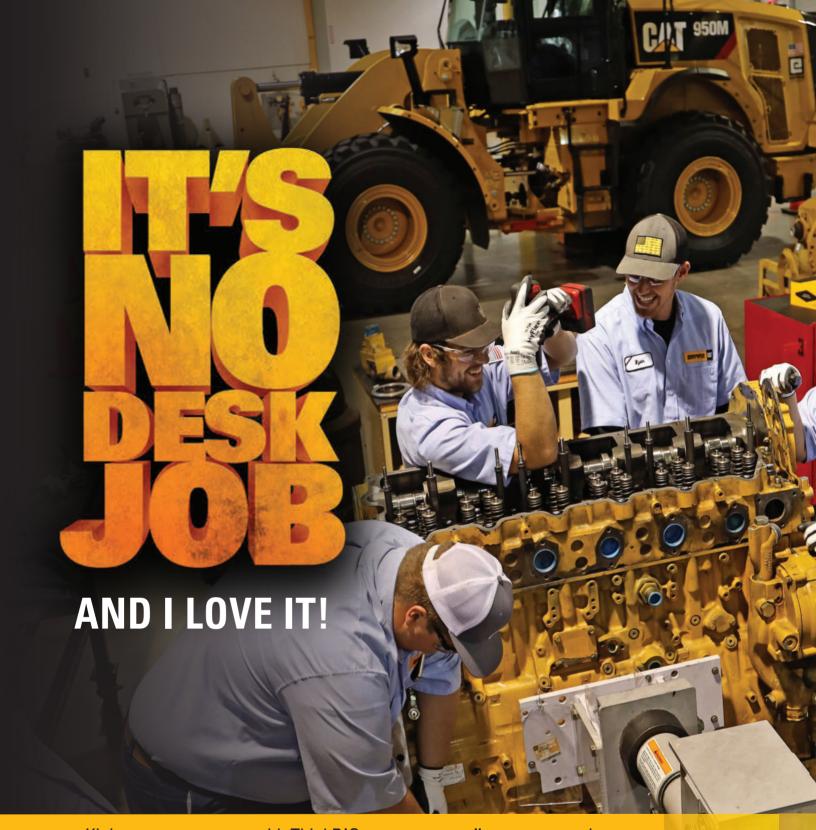
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# **Trade Descriptions - Rock Products Industry**

The following positions have daily responsibility for plant operations which may include any of the following: asphalt, aggregates, recycle, landfill and ready mix concrete plants.

**MANAGEMENT TRAINEE:** A Management Trainee is an entry level management position typically filled by individuals with limited or no previous supervisor experience or recent college graduates. This position prepares new employee to manage a plant or quarry through the practice of hands on management experience.

**PLANT SUPERVISOR:** A Plant Supervisor monitors hourly production or maintenance employees in a small plant. This position usually requires a minimum of 2 years prior work experience in supervising production employees.

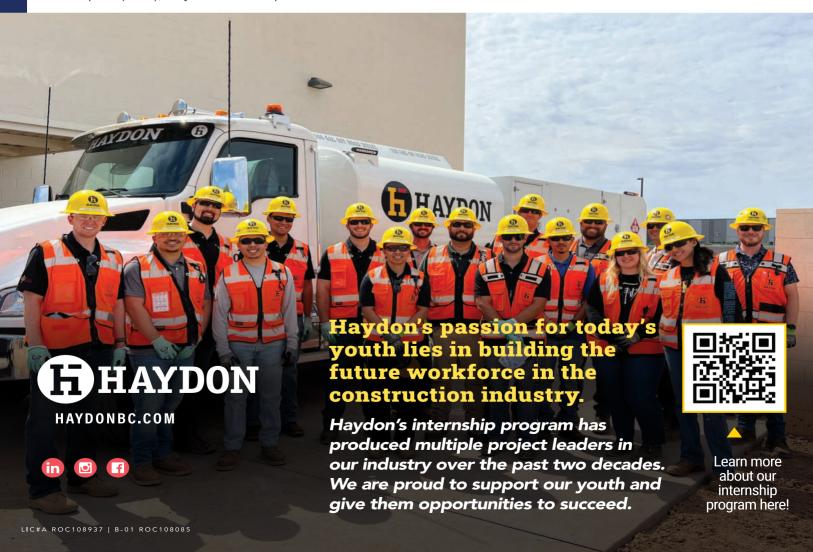
# **ASSISTANT PLANT MANAGER:** An

Assistant Plant Manager supervises hourly production or maintenance employees in a large plant that runs multiple shifts. This position is just below the plant manager position at a site location. This position requires 3-5 + years of prior supervisory work experience with in depth knowledge of rock and sand operations and/or ready mix concrete (RMC), hot mix asphalt (HMA), recycle or landfill operations.

**PLANT MANAGER:** A Plant Manager implements the production and inventory management strategy for a facility. The Plant Manager oversees the operations associated with aggregate and/or asphalt, ready mix concrete, recycle products. This includes mining, processing, stockpiling, product production, loading, and shipping. They are responsible for fixed and mobile equipment associated with the operation, employee and community relations, and safety, health and environmental aspects of the facility. They also supervise the facilities salaried (Assistant Plant Manager, Plant Supervisor) and hourly workforce.

### **DISTRICT OPS MANAGER:** A District

Operations manager implements the production strategy for multiple smaller plants usually within close proximity. This position manages the operations associated with aggregate, hot mix asphalt (HMA), ready mixed concrete (RMC) and recycle plants. The District Operations Manager is responsible for fixed and mobile equipment associated with the operation, employee and community relations, and safety, health and environmental aspects of the facility. The person in this position supervises the facilities salaried and hourly workforce. Their direct reports include Plant Manager, Assistant Plant Manager, and Plant Supervisor.



# **AREA OPERATIONS MANAGER:**

The Area Operations Manager is responsible for implementation of the operations strategy for a geographic area. They make or significantly influence management decisions in the area of capital budgeting. production planning, manning, and inventory management. This position is responsible for achieving economic profit goals for the area. They typically supervise Plant Managers and in some instances District Operations Managers.

# **REGIONAL OPERATIONS**

MANAGER: The Regional Operations Manager develops the operations strategy for a large geographic area. The person in this position makes management decisions in the areas of capital budgeting, production planning, manning, and inventory management. They are responsible for achieving the Economic Profit or EBITA goals. They also typically supervise Plant Managers and in some instances District or Area

# Operations Manager, QUALITY CONTROL OR MATERIALS TECHNICIAN: The

Quality Control or Materials Technician performs sampling and tests involving visual and physical inspection to ensure that standards of quality and legal compliance are met in Company products. They examine causes of poor product quality, researches

causes of complaints from customers and sales and implements action to correct problems. The person in this position also gathers and examines records of test data. They ensure that testing equipment is in proper working order, perform simple to moderately complex arithmetic calculations, and complete tests report.

**QUALITY CONTROL:** Quality Control positions have increasing levels of responsibility for the quality control function. Activities may include developing and approving quality specifications to assure manufacture and legal compliance. Quality Control professionals perform visual and physical inspection, sampling, and testing of materials to conform to established standards of quality, appearance, and other requirements of regulatory agencies. They may be responsible for examining causes of poor product quality, determining origin of product, and initiating appropriate corrective action

# **SCALE CLERK/PLANT**

**DISPATCHER:** In a constructive materials environment, the scale clerk/plant dispatcher performs clerical and administrative duties which include: preparing reports, scheduling product delivery, weighing and dispatching trucks, preparing scale tickets and sales orders, handles cash sales, makes deposits, and maintains accounting records.



# CAREER PATHS INCLUDE:

# **Competitive Salaries** Comprehensive Benefits **Unlimited Opportunities**

- Engineers
- Geologists
- **Commercial Drivers & Dispatchers**
- **Equipment Operators & Mechanics**
- Electricians
- **Environmental Managers**

If you want a career that utilizes your skill sets in unique ways, the rock products industry needs dedicated people like you. Great employment opportunities are available now and offer top salaries, travel and chances to work with cutting-edge technology in innovative ways.

- Sales & Marketing Staff
- **Project Managers**
- **Customer Support**
- **Human Resources Staff**
- Lab Technicians
- And More!

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# WHAT ARE ROCK PRODUCTS?

# AGGREGATES - A combination of raw stone, sand and gravel from non-renewable materials

typically mined where they are deposited and close to construction sites to keep costs low.

ASPHALT - A versatile paving material used in roughly 94% of U.S. roads and highways and ideal for industrial, agricultural, transportation, recreational and other applications.

**CEMENT** - The second most consumed material on Earth (behind water), this binding powder is made from mined and processed minerals that can grow in strength with proper hydration.

**CONCRETE - The world's** most-used construction material, this composite of fine and coarse aggregate is typically lime-based and bonded with fluid cement for use in highways, high-rises, dams, canals, bridges and more.

# BETTER BUILT

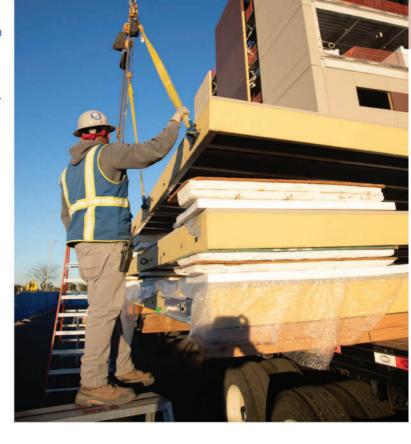
ABOUT BETTER BUILT ARIZONA

# **CONSTRUCTION BUILDS THE WORLD**

Better Built Arizona is a partnership of Arizona's best interior and exterior wall & ceiling contractors.

Working with a Better Built Arizona contractor means working with the best.

Each Better Built Arizona contractor provides competitive high-earning wages, health insurance and retirement benefits, continuing education and training, and the proper care and attention for you to get your job done safely.













**BETTER BUILT ARIZONA** 

# MEMBERSHIP BRINGS VALUE

Hiring with a Better Built Arizona contractor comes with guarantees! If those guarantees aren't satisfied, you can have confidence knowing your benefits are represented and defended. You will be paid on time, you will be in a safe working environment, and you will have a voice.



**SAFETY FIRST** 



**ON THE JOB TRAINING** 



THE RIGHT TOOLS













# **Career and Technical Education (CTE)**

# Career and Technical Education

Career and Technical Education (CTE) programs are offered at local high school districts and through Career and Technical Education Districts (CTED's) across the state. Many local school districts are member districts of the CTEDs that offer a variety of CTE programs that prepare students for entry level careers upon graduation or for other post-secondary opportunities. There are 122 Districts offering CTE plus 14 CTEDs located across Arizona.

CTE can be at secondary or post-secondary level and can interact with the apprenticeship system. At the post-secondary level CTE is typically provided by an institute of technology, or by a local community college.

Increasingly, CTE can be recognized in terms of recognition of prior learning and partial academic credit towards tertiary education (e.g., at a university) as credit; however, it is rarely considered in its own form to fall under the traditional definition of higher education.

As the labor market becomes more specialized and economies demand higher levels of skill, governments and businesses are increasingly investing in the future of CTE through publicly funded training organizations and subsidized apprenticeship or traineeship

**Structural Engineering Solutions Engineered** to Endure Licensed Registrants in all 50 States 480.774.1700 www.ctsaz.com Caruso Turley Scott

See more information on Career and Technical Education at the Arizona Department of Education:

https://www.azed.gov/cte initiatives for businesses.

# CAVIAT - Coconino **Association for** Vocations, Industry and **Technology**

PO Box 3940 Page, Arizona 86040 www.caviat.org

# **CAVIT – Central Arizona** Valley Institute of **Technology**

1789 West Coolidge Avenue Coolidge, AZ 85128 www.cavitschools.com

### CVIT - Cobre Valley Institute of Technology **District**

P.O. Box 176 Superior, AZ 85273 www.cvit81.org

# CTD - Cochise **Technology District**

6506 Mills Maerker Rd Willcox, AZ 85643 www.cochisejted.org

# **EVIT – East Valley** Institute of Technology

1601 W Main St Mesa, AZ 85201 www.evit.com

# GIFT - Gila Institute for Technology

615 North Stadium Avenue Thatcher, AZ 85552 www.gift-tech.org

# **MIJTED - Mountain Institute Joint Technical Education District**

220 Ruger Road #2 Prescott, AZ 86301 www.mijted.net

### **NATIVE - Northeast** Arizona Technological Institute of Vocational **Education**

PO Box 710 Kayenta, AZ 86033 www.nativedistrict.org

### **NAVIT - Northern Arizona Vocation** Institute of Technology 951 West Snowflake Boulevard Snowflake, AZ 85937

### **Pima County Joint Technical Education** District

www.navitschool.org

2855 West Master Pieces Drive Tucson, AZ 85741 www.pimaited.org

### STEDY - Southwest **Technical Education District of Yuma**

899 E. Plaza Circle, Suite

Yuma, AZ 85365 www.stedycte.com

### **VACTE – Valley** Academy of Career and **Technical Education**

3405 E. State Route 89A. Building B

Cottonwood, AZ 86326 www.vacte.com

# WAVE - Western Arizona Vocational **Education District**

700 W. Beale Street Kingman, AZ 86401 www.waveited.org

### West-MEC -**Western Maricopa Education** Center

5487 North 99th Avenue Glendale, AZ 85305 www.west-mec.org



# FIND WHAT YOU ARE MISSING

The Arizona Army National Guard isn't just a job. It's a lifestyle. With the flexibility of part-time service close to home and with full-time benefits, you can build a future only made possible in the Army National Guard. Excellent paid-on-the-job training, professional real-world experience, leadership development, continued education, and transferable credentials make Guard members prime candidates for civilian employment. For more information about benefits and careers, contact us or visit our website below.

- Join as a High School Junior or Senior
   You must be at least 17 years old
- Start getting paid immediately upon enlistment
- \$50,000 Student Loan Repayment Program (SLRP)
- Life Insurance- \$400,000 coverage

- PX/Commissary (tax free shopping)
- Military installation access
- \*GYM, Outdoor Recreation Privileges, Shopping (BX/PX), Commissary, and much more
- MONEY FOR COLLEGE -GI BILL
   Tuition assistance & student loan repayment program.
- PAID SKILLS TRAINING
   Over 100 career choices. There's an option for everyone
- LOW-COST HEALTHCARE

  Get comprehensive healthcare for your whole family
- MONEY TO BUY A HOUSE VA LOAN
   Home buying opportunites.
- MONEY TO START YOUR OWN BUSINESS Small business loan opportunities
- EARLY RETIREMENT

# As an Arizona Army National Guard member, you can:

Serve your country and community without placing your life on hold

Be a full-time college student

Help make an impact at home and abroad

Have purpose in the work that you do

Be a member in a diverse and inclusive workplace

Build ledership skills and experience

Experience training and development opportunities

Get a head start on your civilian career

Have mental and wellness support

Try the Arizona Army National Guard for size and find unlimited opportunities.

Call 1-800-GO-GUARD or visit us at www.nationalguard/az.com

# WE LIVE HERE. WE TRAIN HERE. WE SERVE HERE.

# **EDUCATIONAL BENEFITS:**

Arizona National Guard's Tuition Reimbursement Program and Federal Tuition Assistance will help you pay for college.

\*National Guardsmen attending school under the Simultaneous Membership Program are non-deployable for 4 years.

# **MONTGOMERY GI BILL AND KICKER:**

\*Paid tax-free directly to student each month

Full time \$407 + Kicker program \$200

3/4 TIME \$305.00

1/2 TIME \$203.00

1/4 TIME \$101.75

\*Both programs can be used at the same time

# MINUTEMAN SCHOLARSHIP BENEFITS

- Full tuition and fees (uncapped) or room and board (\$10,000/year) at the participating University of attendance.
- Cadet monthly stipend (\$420 Freshman-Senior)
- Book stipend of \$1,200 annually (\$600 per semester)





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# **CTE- Post Secondary Opportunities**

Career and Technical Education (CTE) can continue after high school through Apprenticeship Programs that prepare trainees for a specific trade or occupation.

APPRENTICESHIP
OPPORTUNITIES AND JOINT
APPRENTICESHIP COMMITTEES

# Arizona Association of General Contractors

General Contractors Phoenix, AZ 85007 https://www.azagc.org/

# Arizona Builders Alliance/ AGC Education

Electrician, Sheet Metal, Carpenter, Form Builder(Construction), Pipe Fitter, Plumber, Sign Erector Phoenix, AZ Tucson, AZ https://azbuilders.org/

# Arizona Department of Transportation

Operating Engineer Phoenix, AZ https://azdot.gov/home

# **Arizona Heat and Frost Insulators and Allied Workers**

Insulation Worker Phoenix, AZ https://www. arizonahetandfrostinsulatorsjatc. com/

# **Arizona Masonry Contractors**

Masonry
Phoenix, AZ
Tucson, AZ
https://www.azmasonry.org/

# **Arizona Operating Engineers**

Operating Engineer
Casa Grande, AZ
https://www.iuoe428.com/index.
php/earn-while-you-learn/

### **Arizona Pipe Fitting Trades**

Pipefitters, Plumbers, Refrigeration Phoenix, AZ https://azpipetrades.com/

# Arizona Public Service Company

Line Worker, Electrician Phoenix, AZ https://www.aps.com

# **Arizona Roofers Industry**

Roofer Phoenix, AZ https://azroofingfoundation.org/

### **Arizona Sheet Metal**

Sheet Metal Worker, HVAC Phoenix, AZ http://www.azsheetmetal.org/index. htm

# **ASARCO-IBEW and USWA**

Electrician, Boilermaker, Bricklayer, Carpenter, Pipefitter Kearney, AZ https://www.asarco.com/

## **Boilermakers JAC**

Boilermaker Page, AZ https://www.westernstatesjac.org/

### **Central Arizona Project**

Heavy Equipment Operator, HVAC, Electrician Phoenix, AZ https://www.cap-az.com/

# **Elevators Constructors Local** 140

Elevator Constructor Phoenix, AZ https://www.iuec.org/

# **Finishing Trades Institute of DC**

Painter, Drywaller Phoenix, AZ https://finishingtradesinstituteofaz. org/

# Globe-Miami Joint Apprenticeship & Training

Electrician Globe, AZ https://globe-miamijatc.org/

# Independent Electrical Contractors

Electrician Tempe, AZ Tucson, AZ https://iecaz.org/

### **Ironworkers JAT**

Structural Steel and Metal Workers Phoenix, AZ https://www.ironworkers75.org/

## **Navopache Electric Cooperative**

Electrician Lakeside, AZ https://navopache.org/

# Northern Electrical Contractor Association

Electrician Flagstaff, AZ https://naeca.org/

# Phoenix Bricklaying and Tile Setting JATC

Phoenix, AZ Phone:(602) 286-9030 Email: jgray1956@outlook.com

### **Phoenix Electrical JATC**

Electrician Phoenix, AZ https://pejatc.org/

# Phoenix Painters & Decorators JATC

Painter, Drywall Finisher Phoenix, AZ https://ifti.edu/

# **Phoenix Pipe Fitting JAC**

Pipefitting Phoenix, AZ https://pipetrades.org/

# **Phoenix Sheet Metal JATC**

Sheet Metal, HVAC Phoenix, AZ Phone: (602) 275-6511 http://www.azsheetmetal.org/

# Plasterers & Cement Masons JAC

Cement Mason, Plasterer Phoenix, AZ http://www.opcmia.org/

(Continues on page 29)



# **Local Union 359**

# Why Join Local Union 359

- Competitive Wages
- > Employer Paid Benefits
- Health Insurance at ZERO cost to you
- Credit towards a Pension Plan
- ➤ 401K
- Continued Training & Education
- Career Advancement Opportunities
- Workforce Safety Standards

# The Joint Apprenticeship Training Program

- Platinum Accreditation Award Recipient
- > State-of-the-art training facility
- Low Cost Tuition
- > 5 Year Apprenticeship Program
- > 8,000 hours of on-the-job training and a minimum of 720 hours class instruction
- Earn while you Learn





# Our Workforce Specializes In:

- Design, fabrication and installing flashing, gutters, ventilation and air conditioning systems
- Design, fabrication, and installation of architectural flashing, gutters, metal roofs, ornamentation (stainless steel, brass, copper and aluminum), columns, skylights, signage, and ceilings
- Fabrication and installation of ductwork, metal roofing, kitchen and food service equipment, decking, and siding
- Computer-Aided Design (CAD)
- Welding (mild steel, stainless, aluminum, copper, brass and carbon arc)
- Testing, Adjusting and Balancing (TAB)

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info@smw359.org



GCU has joined forces with local organizations to prepare students to become either a computer numerical control (CNC) machinist or an electrician while also getting traditional college experiences and benefits.

CNC Machinist courses prepare candidates to begin a career in precision manufacturing that machines components for industries including aerospace, defense, medical device, semiconductor and more.

**Pre-Apprenticeship for Electricians** 

courses help train candidates to move into an electrician apprenticeship and begin a professional career in a growing field.

SCAN TO LEARN MORE ABOUT BECOMING A CNC MACHINIST:



SCAN TO LEARN MORE ABOUT BECOMING AN ELECTRICIAN:



Grand Canyon University is accredited by the Higher Learning Commission (HLCommission.org), an institutional accreditation agency recognized by the U.S. Department of Education. Approved by the Director of Academic Analytics and Technology Center for Workforce Developmenton October 3, 2023. ©2023 Grand Canyon University 23GTR0894

GRAND CANYON
UNIVERSITY

CENTER FOR WORKFORCE DEVELOPMENT

# **CTE- Post Secondary Opportunities Continued**

## Salt River Project JAC

Electrician, Metal Fabricator Phoenix, AZ https://www.srpnet.com/

# **Southwest Carpenters Training Fund**

Carpenters Phoenix, AZ https://www.swmsctf.org/

### **Tohono O'odham Career Center**

Electrician, Carpenter, Plumber, Asphalt Paving Sells, AZ https://tocc.edu/apprenticeship/

### **Tucson Electrical JATC**

Electrician Tucson, AZ https://www.tucsonjatc.org/



# **CTE- Post Secondary Opportunities Continued**

Construction careers are so broadly diversified that no single curriculum prepares the student for universal entry into all fields. Many students go on to careers as project managers, estimators, planners and schedulers for both private and government agencies, which may require an additional degree.

# PUBLIC FOUR-YEAR DEGREE PROGRAMS

### Arizona State University

Tempe, AZ
https://www.asu.edu/
Related Degree Programs: Civil,
Environmental and Sustainable
Engineering, Construction
Engineering and Construction
Management, Architecture, Interior
Design

## **Grand Canyon University**

Phoenix AZ www.gcu.edu Related Degree Programs: Environmental, Electrical and Mechanical Engineering, Project Management, Graphic Design

## Northern Arizona University

Flagstaff, AZ www.nau.edu Related Degree Programs: Construction Management, Civil, Environmental, Electrical, and Mechanical Engineering, Interior Design

### University of Arizona

Tucson, AZ www.arizona.edu Related Degree Programs: Civil, Environmental, Electrical, Mining and Mechanical Engineering, Architecture

# PUBLIC TWO-YEAR DEGREE/ CERTIFICATION PROGRAMS

These schools offer building trades and construction management courses where a student can complete a certification program and/ or an Associates Degree in certain areas of the construction industry, each vary, research each school for your individual interests.

### Arizona Western College

Yuma, AZ www.azwestern.edu Certificate, Associate's Degree

### Central Arizona College

Coolidge, AZ www.centralaz.edu Certificate, Associate's Degree

## Coconino Community College

Flagstaff, AZ www.coconino.edu Certificate, Associate's Degree

## Eastern Arizona College

Thatcher, AZ www.eac.edu Certificate, Associate's Degree

## Gateway Community College

Phoenix, AZ www.gatewaycc.edu Certificate, Associate's Degree

### Maricopa Skills Center

Phoenix, AZ www.maricopa.gov/1372/Training-Education Certificate

### Mesa Community College

Mesa, AZ www.mesacc.edu Certificate, Associate's Degree

### Mohave Community College

Kingman, AZ www.mohave.edu Associate's Degree

### Northland Pioneer College

Holbrook, AZ www.npc.edu Certificate, Associate's Degree

### Phoenix College

Phoenix, AZ www.phoenixcollege.edu Certificate, Associate's Degree

## Pima Community College

Tucson, AZ www.pima.edu Certificate,Associate's Degree

### Scottsdale Community College

Scottsdale, AZ www.scottsdalecc.edu Certificate, Associate's Degree`

# Yavapai Community College,

Prescott, AZ www.yc.edu Certificate, Associate's Degree

# **Del E. Webb School of Construction**

# Who are we?

The Del E. Webb School of Construction was born from a dream to create one of the leading construction programs in the nation, which was generously supported by an endowment from the Del E. Webb Foundation.

At the Del E. Webb School of Construction, we offer two degree paths:

# **Construction Engineering**

Focus: Planning, designing and managing construction infrastructure projects such as dams, highways and bridges

Our Construction Engineering program prepares students to gain their Professional Engineering License in order to be a solution for long-term infrastructure projects

# **Construction Management**

Focus: Utilizing knowledge of technology, construction principles, and business management in order to lead a variety of construction projects

Our Construction Management degree prepares students for careers in fields such as project management, estimation, planning, and more

# Why Del E. Webb?

- High level of industry involvement
- High student diversity
- Degree flexibility
- Emphasis in leadership, sustainability, innovative materials and life cycle analysis
- State-of-the-art facilities
- International collaborations

Please contact Abby Still, Coordinator of Student Recruitment & Engagement, with any questions, comments, or if you are intersted in learning more!

E: abby.still@asu.edu | T: (480) 965-2801



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Deissy Jaramillo - Project Manager

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Fax - (602) 610-3471





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- · Jobsite Bonus Program
- Paid Vacation/PTO/Holiday/Flex
- Medical/Dental/Vision/Life/Voluntary
- 401K with Company Match
- Awesome Culture & Company Events
- Regular Feedback & Reviews

# **Industry Earnings**

Earnings in construction are higher than the average for all industries. In general, the construction trades workers needing more education and training, such as electricians and plumbers, get paid more than construction trades workers requiring less education and training, including laborers and helpers. Earnings also vary by the worker's education and experience, type of work, complexity of the construction project, and geographic location.

# Average earnings of workers in construction

<u>Industry</u>	Annual Salary
Boilermaker	\$66,252
Carpenter: Commerical	\$60,320
Carpenter: Industrial	\$61,071
Concrete Finisher	\$58,046
Construction Site Safety Technician	\$70,986
Drywall Installer	\$54,773
Electrician: Commercial	\$65,398
Electrician: Industrial	\$59,304
Electronic Systems Technician	\$72,179
Framer	\$52,495
Heavy Equipment Operator	\$62,910
Highway Worker	\$49,920
HVAC Technician	\$65,231
Industrial Coating Applicator	\$60,523
Industrial Maintenance Mechanic	\$66,284
Instrumentation Fitter	\$65,475
Instrumentation Technician	\$78,320
Insulation Mechanic	\$57,384
Ironworker	\$63,680
Mason	\$57,646
Millwright	\$68,640

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Wages of construction workers often are affected when poor weather prevents them from working. Traditionally, winter is the slack period for construction activity, but there is a trend toward more year-round construction, even in colder areas. Wages shown below are from survey data that was provided by 139 voluntary organizations representing 337,371 employees from the industrial, commercial and residential construction industries.

#### Average earnings of workers in construction

<u>Industry</u>	Annual Salary
Mobile Crane Operator	\$73,285
Painter	\$53,040
Pipefitter	\$67,824
Plumber	\$73,320
Power Line Worker	\$85,072
Project Manager	\$98,965
Project Supervisor	\$90,299
Rigger	\$68,170
Roofer	\$59,131
Scaffold Builder	\$58,834
Sheet Metal Worker	\$61,776
Signal Person	\$53,618
Solar Photovoltaic Installer	\$53,783
Sprinkler Fitter	\$59,288
Surveyor	\$70,880
Tower Crane Operator	\$77,792
Welder: Combo	\$73,531
Welder: Structural/ Fabricator	\$62,446
Welder: Pipe	\$70,482

#### SOURCE: NCCER February 2022 Suvery Data



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#### **Demand for Construction Science Professionals**

The demand for construction science professionals is growing in Arizona. Construction trades are dependent on one another to complete specific parts of a project—especially on large projects—so a lack of workers in one trade can delay or stop the work of another trade.

#### Construction Science Professionals Needed in Arizona Through December 2024

Boilermaker: 6,740	Mason: 20,246
Carpenter: 46,020	Millwright: 4,153
Craft Laborer: 54,704	Mobile Crane/ Tower Crane: 2,073
Electrician: 17,122	Painter: 12,366
Glazier: 4,173	Pipefitter: 11,094
HVAC Technician: 9,670	Plumber: 6,397
Heavy Equipment Operator: 13,171	Power Line Worker: 2,108
Instrument Technician: 3,632	Roofer: 14,521
Insulator: 11,545	Sheet Metal Worker: 7,444
Ironworker: 15,825	Welder: 4,081

#### SOURCE: Build Your Future, www.byf.org Oct 2023



38



The Wall Company maintains a fun and collaborative culture while emphasizing safety and growth as it strives to make every day enjoyable for employees and clients. We believe in an environment where every person is cared for, appreciated, and is not just a number. We offer continued education and training to ensure every employee is up to date with all the knowledge needed to succeed in their career to grow personally and professionally.

Services: Basements • Retaining Walls • Slab on Grade • Pad & Site Preparation Demolition • Water Proofing • Plumbing

To apply visit our website at thewallcompany.com and click on Join Our Family or call our HR Department at 480-355-1234.



Wallcon believes in an environment where every person is cared for, appreciated, and is not just a number. We offer continued education and training to ensure every employee is up to date with all the knowledge needed to succeed in their career to grow personally and professionally. We focus on providing service with integrity, honesty and value long-term relationships with our employees, customers, and vendors. With over 400 employees, we employ one of the largest workforces in the Valley, many of whom have been with the company for I0-20 years or more. Taking great pride in their work, our team is the backbone of our continued success, growth and customer satisfaction.

Services: Foundations • Construction Disposal • Rough & Final Grading Bedding & Shading • R&R • Pavers • Door & Trim • Framing • Plumbing

To apply visit our website at wallcon.team and click on Join Our Family or call our HR Department at 480-355-1234.



TWC Contracting maintains a professional and collaborative culture while emphasizing safety and growth as we strive to make every day productive and enjoyable for employees and clients. The environment at TWC Contracting is one that our employees look forward to coming to every day. TWC Contracting also focuses on continued education and training to help every employee succeed in their career, as we believe in a working atmosphere where people are cared for and appreciated and are not treated as just a number.

Services: Onsite/Offsite Concrete • Curb & Gutter • R&R Concrete
Pad & Site Preparation

To apply visit our website at twccontracting.team and click on Join Our Family or call our HR Department at 480-355-1234.



CORE Ready Mix believes in treating everyone like family, and we believe in taking care of each other and our clients. We provide an open and approachable workplace to ensure every member of our "family" feels valued. When you are a part of our team, you are a contributing factor to our success. With safety as our #1 priority, it is of utmost importance that we take every precaution to make sure our employees get home safely to their families each night. The environment at CORE Ready Mix is one that our employees look forward to coming to every day. When you join the CORE Ready Mix family, it's a career, not just a job – with the ability for growth and opportunities to develop personally and professionally.

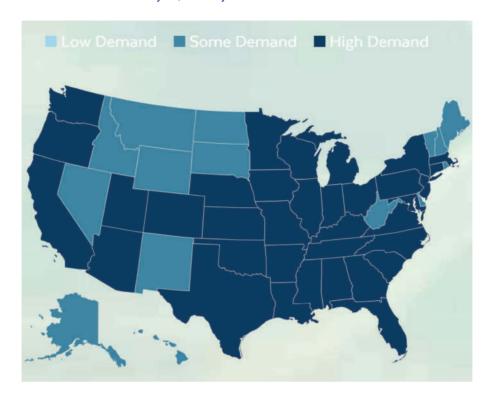
Services: Providing the highest quality of Concrete • Shotcrete • Slurry • Grout

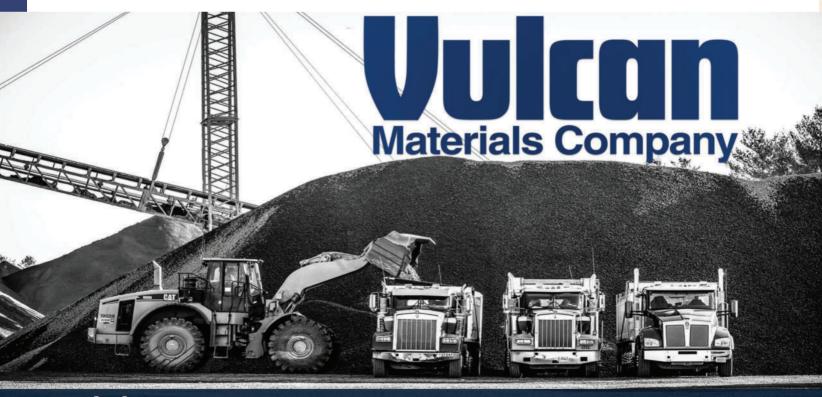
To apply visit our website at corereadymix.com and click on Join Our Family or call our HR Department at 480-355-1234.

#### **Demand for Construction Science Professionals (Cont)**

Arizona's population is growing, and with that we can expect plenty of job growth. Those new employees need offices, hospitals, schools roads and homes. All of those buildings demand construction science professionals.

Map courtesy of Construction Labor Market Analyzer, www.myCLMA.com





Build Your Career. Build America's Future.



## Proclamation

**WHEREAS,** Careers in the Construction Science Technology Professions Month is an annual month designated nationally in October to increase public awareness and appreciation of the construction sciences and of the entire construction workforce; and

WHEREAS, Arizona's continued growth depends on the expertise of its construction workforce who skillfully builds the spaces within which we live, work, and recreate, and who constructs the various infrastructure systems we rely upon for our health, safety, and quality of life; and

**WHEREAS,** in recognition of the need to ensure our construction workforce is equipped with the critical skills necessary to face the diverse needs of our 21st-century economy, Arizona's BuilditAZ initiative seeks to double the number of construction and trades apprentices by the end of 2026, with the greater goal of creating more opportunities for more Arizonans to earn industry-recognized credentials; and

**WHEREAS**, the construction sciences offer lucrative careers that are essential, gratifying, and open to persons of any and all backgrounds who wish to apply their unique skills and interests to this honorable industry; and

WHEREAS, Arizona proudly recognizes both national and state efforts to introduce construction career pathways to youth and young adults, specifically the work and dedication of the National Center for Construction Education and Research, the Build Your Future Organization, SkillsUSA Inc., the Arizona Department of Education's Career and Technical Education Division, the Arizona Department of Economic Security's Arizona@Work Initiative, Arizona Construction Career Days, Southern Arizona Construction Career Days, Yuma Southwest Contractors Association Career & Trades Experience, and other similarly missioned organizations.

NOW, THEREFORE, I, Katie Hobbs, Governor of the State of Arizona, do hereby proclaim October 2023 as

#### CAREERS IN THE CONSTRUCTION SCIENCE TECHNOLOGY PROFESSIONS MONTH



IN WITNESS WHEREOF, I have hereunto set my hand and caused to be affixed the Great Seal of the State of Arizona

GOVERNOR

**DONE** at the Capitol in Phoenix on this twenty-ninth day of September in the year Two Thousand and Twenty-Three and of the Independence of the United States of America the Two Hundred and Forty-Eighth.

ATTEST:

SECRETARY OF STATE





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FROM THE GROUND UP

#### **Arizona Trade Associations**

A trade association, also known as an industry trade group, is an organization founded and funded by businesses that operate in a specific industry. An industry trade association participates in public relations activities such as advertising, education, political donations, lobbying and publishing, but its main focus is collaboration between companies. or standardization. Associations may offer other services, such as producing conferences. networking or charitable events or offering classes or educational materials. Many associations are non-profit organizations governed by bylaws and directed by officers who are also members.

#### Air Conditioning Contractors of America Arizona Chapter Phoenix, AZ

Phoenix, A∠ www.acca-az.org

## Alliance of Construction Trades

Tucson, AZ www.actaz.net

#### American Subcontractors Association of Arizona

Phoenix, AZ www.asa-az.org

## Association of Pool & Spa Professionals

Central Arizona Chapter

Phoenix, AZ Phone: 480.545.2613

#### Phone: 480.545.2613

### Arizona Builders' Alliance

Phoenix, AZ Tucson, AZ www.azbuilders.org

## **Arizona Concrete Contractors Association**

Phoenix, AZ www.azconcrete.com

## American Concrete Institute Arizona Chapter

Phoenix, AZ www.azaci.org

## **Arizona Contractors Association**

Phoenix, AZ www.azca.com

#### Arizona General Contractors Association

Phoenix, AZ www.agc.org

#### Arizona Masonry Guild

Phoenix, AZ www.masonryforlife.com

#### Arizona Rock Products Association

Phoenix, AZ www.azrockproducts.org

## Arizona Roofing Contractors Association

Phoenix, AZ www.azroofing.org

## AZ Chapter Associated General Contractors

Phoenix, AZ www.azagc.org

## Associated Minority Contractors of America

Phoenix, AZ www.amcaaz.com

#### Ceramic Tile & Stone Association of Arizona

Phoenix, AZ www.ctsaaonline.com

#### Home Builders Association of Central AZ

Phoenix, AZ www.hbaca.org

## National Association of Women in Construction

Phoenix, AZ www.nawicphoenix.org

#### National Electrical Contractors Association- Arizona Chapter

Phoenix, AZ www.azneca.org

#### National Utility Contractors Association of Arizona

Phoenix, AZ www.nucaaz.org

#### Northern Arizona Building Association

Flagstaff, AZ www.nazba.org

#### Sheet Metal & Air Conditioning Contractors' Association - AZ Chapter

Phoenix, AZ www.smacna-az.org

#### Structural Engineers Association of Arizona

Phoenix, AZ www.seaoa.org

### Southern Arizona Home Builders Association

Tucson, AZ www.sahba.org

#### Yavapai County Contractors Association

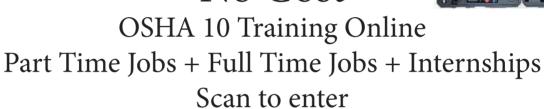
Prescott, AZ www.ycca.org

Nearly 9 out of 10 construction firms say they're having trouble hiring workers. Craft professionals are most in-demand, and the hardest positions to fill are carpenters, sheet metal installers, and concrete workers.

--Associated General Contractors of America



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At our Core, We Exist to Build Great Things and great people; It really is that simple! Great projects, great relationships, great teams, a truly great company start with smart people and strong values.

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## Presents AZ Construction Career Days

#### Thank you to our Steering Committee Members and Leadership

Rose Ann Canizales - Great Impact - ACCD President - AZCCD Coordinator

Sabrina Lechuga - Elite Civil Construction, LLC. - ACCD Treasurer - AZCCD School Chair, website

Sheila Hall - Caruso Turley Scott - ACCD - Secretary - AZCCD Event Site Chair

Carl Edmiston - Graphic Ideals - ACCD Board Member - AZCCD Exhibitor Chair

MAJ GEN Muehlenbeck - Director of Arizona Department of Emergency Management,

The Adjutant General

MAJ GEN Tupper Daniels - Assistant Adjutant General for Air, and Air Component Commander,

Arizona Air National Guard, Joint Force Headquarters

COL Joseph A Haro - Garrison Commander AZARNG

LTC Gordon J. Smith - Commander, AZARNG

CPT Lance Leone - Recruiting and Retention AZARNG

CPT Erin Hannigan - PIO Officer AZARNG

MSG Jacob Allen -- AZARNG

MAJ Brook Wiggins - Battalion Commander, AZARNG

Steve Trussell - VIP Reception Master of Ceremony -

Arizona Rock Products Association & Arizona Mining Association Executive Director

Nicole Massarand Alston – Arizona Rock Products Association – AZCCD VIP Chair

Cynthia Casaus - AZCCD Publicity Chair - Registrar of Contractors

Jessica Winters - AZCCD Publicity Chair - Registrar of Contractors

Joe Grieco - ADOT OJTSS - AZCCD Steering Committee

David Simmons - AZ Department of Transportation - OJTSS / Workforce Development Program Manager

Cindy Gutierrez - Az Department of Education - Director of Program Services CTE

Joe Grieco - Az Department of Education - CTE Program Specialist Construction Technologies

Jesus Nunez - AWP Safety - AZCCD Signage Chair

Kathy Kingsland - Bel-Aire Mechanical - AZCCD/ACCD Financial Liaison

Carmen Wyckoff - DLR Group - AZCCD Career Guide Developer

Jennifer Reilly - University Mechanical - AZCCD Exhibitor Chair - Volunteer Chair

Shawn Hutchinson - Director Phoenix Electrical JATC Apprenticeship Program

Aimee Olmedo - Rosendin Electric - AZCCD Steering Committee

Dave & Luann Nelson - AZCCD Steering Committee

Hugh Wolf - Equuss Workforce Solutions - AZCCD Steering Committee

Amber Shepard - McCarthy Building Company - AZCCD Steering Committee

Bridget Olson - BPG - AZCCD Steering Committee

Immanuel Martinez - Sunland - AZCCD Steering Committee

Manuel Davila -- AWP Safety -- AZCCD Steering Committee

## We want to thank you for your continued support

#### WITHOUT YOU, AZCCD WOULDN'T BE A SUCCESS!

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## **AZ Career and Technical Education**

Career and Technical Education (CTE) provides students with the academic and technical skills, and with the knowledge and training necessary to succeed in future careers and to become lifelong learners.





Vision: Every Arizona Student has a developed career pathway.

CTE Programs: Accounting ~ AgriScience ~ Air Transportation ~ Aircraft Mechanics ~ Architectural Drafting ~ Automation and Robotics ~ Automotive Collision Repair ~ Automotive Technologies ~ Bioscience ~ Business Management ~ Business Operations ~ Cabinetmaking ~ Carpentry ~ Construction Technologies ~ Cosmetology and Related Services ~ Culinary Arts ~ Dental Assisting ~ Diesel Engine Repair ~ Digital Animation ~ Digital Communication ~ Digital Photography ~ Digital Printing ~ Early Childhood Education ~ Education Professions ~ Electrical and Power Transmission Installation ~ Electronic Technologies ~ Electronics Drafting ~ Emergency Medical Services ~ Energy Systems ~ Engineering ~ Fashion Design and Merchandising ~ Film and TV Production ~ Finance ~ Fire Service ~ Graphic Design ~ Heating, Ventilation and Air Conditioning ~ Heavy Equipment Operations ~ Heavy Industrial Maintenance ~ Home Health Aide ~ Hospitality Management ~ Interior Design ~ JROTC Airforce/Spaceforce ~ JROTC Army ~ JROTC Navy/Marine ~ Laboratory Assisting ~ Law and Public Safety ~ Marketing ~ Mechanical Drafting ~ Medical Assisting Services ~ Medical Records Technologies ~ Mental and Social Health Technician ~ Music and Audio Production ~ Network Security ~ Nursing Services ~ Pharmacy Support Services ~ Plumbing ~ Precision Machining ~ Software and App Design ~ Sports Medicine and Rehabilitation ~ Stagecraft ~ Technology Devices Maintenance ~ Therapeutic Massage ~ Veterinary Assisting ~ Welding Technologies

Mission: CTE will engage AZ learners in relevant experiences leading to purposeful and economically viable careers.











To learn how you can get involved in CTE go to

https://www.azed.gov/cte/programs and contact a CTE Program Specialist!

## Thank you to participating Schools

#### 86 Schools / 3586 Students / 8 Counties

Adobe Mountain High School Agua Fria High School American Leadership Academy-Gilbert North Barry Goldwater High School Betty H. Fairfax High School Blue Horizons High School Boulder Creek High School Buckeye Union High School Camelback High School Canyon State Academy Carl Hayden High School Casteel High School Centennial High School Chief Hill Academy Coconino High School Coolidge High School

Copper Canyon High School Coronado High School Cortez High School Crismon High School Deer Valley High School Dobson High Schoo **EVIT-Main Campus** Flagstaff High School Franklin Police & Fire High School Ganado High School

Gilbert High School Glendale High School Grand Canyon High School Habitat for Humanity Hamilton High School Hopi Jr-Sr High School Independence High School Ironwood High School Marcos de Niza High School Mesa High School

Metro Tech High School Moon Valley High School

Mountain View High School Mountain Vista Academy Next Step North Canyon Northern Academy Paradise Valley High School Pascua Yaqui Education-**NACTEP** 

Peoria Flex Academy Peoria High School Queen Creek High School Red Mountain TSW Salome High School San Carlos High School Sandra Day O'Conner High School Santa Cruz High School

**SCORE** Shadow Ridge High School Skyline High School South Mountain High School Southwest Leadership Academy Success University Summit High School Sundown Mountain High School Sunnyslope High School Sunrise Mountain High School Superstition High School Thrivepoint High School Thunderbird Adventist Academy Tolleson High School Tonopah Valley High School Trevor Browne High School **VACTE** West-MEC West Point High School Westview High School Wickenburg High School Willow Canyon High School Wilson College Prep Winslow High School



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