



CONSTRUCTION  
FUTURES  
CTF



**BUILD  
YOUR  
CAREER**



**FUTURES IN  
CONSTRUCTION**

[ctf.wa.gov.au](http://ctf.wa.gov.au)





Acknowledgement of Country: The Construction Training Fund acknowledges the Traditional Custodians of the land throughout Western Australia and pay our respect to the Elders both past and present. We thank them for their ongoing custodianship of the lands and waters, and celebrate their rich culture of art, song, dance, language and stories.

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# A word from the Chief Executive Officer



Kaya everyone...

At the Construction Training Fund (CTF) we understand that choosing your career can be a difficult task, so we aim to provide knowledge and support to help you make decisions about working in the building and construction industry.

Construction offers a vast range of job opportunities and roles, and there are endless benefits to choosing a career in the industry. The CTF works with industry to provide you advice on a career pathway that suits your needs and goals.

Many apprentice opportunities and roles allow you to work in an office and outdoors, not only benefiting your health and fitness, but also delivering a feeling of satisfaction that you are part of the bigger picture. You are essentially building WA's future.

The many different career pathways in the industry mean there are opportunities for a wide range of people from all walks of life, all ages and levels of experience. We believe that diversity should shape the construction industry and represent the community.

The CTF also promotes innovation within the industry through our interactive Construction Futures Centre (CFC). The Centre is packed with virtual reality, augmented reality, videos, games, kinetic sand and specific hands-on interactive experiences to educate and inspire the next generation of construction workers.

We look forward to helping you shape your future career goals and inspiring you to consider construction.

Yours sincerely,

**Tiffany Allen**  
CEO, Construction Training Fund



## Why choose construction?

Being faced with many career choices can be overwhelming. Let us tell you why choosing construction is the way to go.



### Be part of building the community

Construction surrounds our everyday lives. It creates our homes, offices, roads, schools, hospitals, shopping centres and much more. When you are involved in construction you are building the community around you and can step back and appreciate your hard work.

### Job security

We are living in unprecedented times with sky high demand for construction jobs. However, even in more economically challenging times there is always a need for building and construction work whether it's infrastructure, commercial, residential or resources construction.

### Variety

Most people in construction will tell you, no two days are the same. You can find yourself working in a lot of different locations, on different types of projects, and with a range of different people.

### Active lifestyle

For the trades you'll need some physical strength and stamina to keep up with the demands of the construction industry. This should motivate you to keep fit and healthy - a day at work can burn more calories than a session at the gym!

### Earn good money

Wages widely vary depending on the sector, trade and level but you have the potential to earn a healthy income. The salary in the construction industry is higher than the national average with limitless potential to earn more.

### Diversity in the Industry

There are many career pathways within the construction industry, and there are roles for everyone, from all backgrounds with all levels of experience. No matter what you initially qualify as you may be able to use these skills to diversify into different sectors, work your way up the ladder, or even start your own company and become your own boss.

### Be part of something big

In Western Australia almost 9% of the workforce work in construction. The construction industry isn't just about building houses, it encompasses huge infrastructure, government, and mining projects. It's exciting to work on large scale construction projects in a team of people in which you can share a sense of pride.

### Work anywhere

You can use your construction skills to work anywhere in the country or even the world.

# Pathways into Construction

There are many ways to get into the construction industry. Some roles can be started without any formal training, whereas others require a qualification to get started. You can complete a pre-apprenticeship which makes you more employable as a pathway into an apprenticeship, or go straight into an apprenticeship if you find an employer who is willing take you on. No matter how you get into the industry, once you have started your journey it can take you anywhere.

As you explore the different career options in this booklet, you will find information about the training required for the role. Some of the typical avenues are:

## Informal Training

- ▶ No formal qualifications.
- ▶ Learn on the job.

## Traineeship

- ▶ Get paid while you learn.
- ▶ Complete a qualification that combines study and work experience but does not result in a trade certificate.

## Apprenticeship

- ▶ Get paid while you learn.
- ▶ Results in a trade certificate.
- ▶ Combination of time on the job and off the job training.

## Qualified Role

- ▶ Complete a qualification at a University, TAFE or Registered Training Organisation.
- ▶ Certificate III through to a Degree.

## Pre-Apprenticeship

Pre-apprenticeships are a great way to get started in a trade. Not only does it increase your chances of gaining an apprenticeship, but it can also help you decide whether an apprenticeship is right for you before committing to a 3–4 year contract.

You will learn basic skills relevant to working in a trade such as reading and interpreting plans, working safely on a construction site and carrying out measurements and calculations. Pre-apprenticeships are highly regarded by employers and may provide credits or reduced time as an apprentice.

You can start a pre-apprenticeship from Year 11 in school. Each year the CTF award Pre-Apprenticeship Scholarships to students in WA with a passion for the building industry allowing you to gain experience and unlock job-ready training while completing school.

**For more information visit:** <https://ctf.wa.gov.au/construction-futures/scholarships>



**Work experience is a valuable tool when deciding which trade is for you. It gives you the opportunity to ask questions, gain knowledge and experience, and determine whether you'd like to continue exploring a particular career.**



## What is an apprenticeship?

An apprenticeship combines on and off the job training spanning 3 to 4 years, resulting in a nationally recognised qualification which means you can work all over Australia.



One of the main reasons people chose an apprenticeship pathway over university is the ability to earn while you learn. The training costs are substantially lower than university fees and when you finish your qualification your wage will not only increase, but you will already be working in your chosen profession. There are a range of apprenticeships to cater for all interests within construction, some of the main ones include trades like plumbing, carpentry or tiling.

You can complete an apprenticeship with one employer which is referred to as a direct indenture, or with a Group Training Organisation.

What is the difference?

When you complete your apprenticeship with a Group Training Organisation (GTO), you are employed by them and then hired out to various employers over the life of your apprenticeship. This gives you the ability to gain a variety of skills from multiple tradespeople rather than learning from the one person the entire time in your apprenticeship.

If you complete your apprenticeship as a direct indenture, you sign an employment contract with one company and usually remain with that employer for the life of the apprenticeship. Working with the same employer provides stability and allows you to build a strong relationship with a team.

## What is a traineeship?

Traineeships work much the same way as apprenticeships but are shorter in duration (generally 1 to 2 years). You work while you learn both on and off the job. Traineeships available include para professional roles that support construction behind the scenes such as estimating and site management.



### Did you know?

You can get started in an apprenticeship or traineeship while you are still at school?

Completing a School Based Apprenticeship or Traineeship (SBAT) has many benefits. It helps you gain valuable skills and knowledge in your chosen field or the career you want to explore further post-school and can contribute towards your Western Australian Certificate of Education (WACE). Talk to your career advisor or career practitioner at your school for more information.





## Who is the CTF?

Construction Training Fund (CTF) is a Statutory Authority for the construction workforce. We help ensure Western Australia's building and construction industry can meet the demand for skilled workers and create a safe, sustainable future for all who work in the industry. Construction project owners in WA are required to pay the Building and Construction Industry Training Fund levy to the Construction Training Fund which is invested back into the industry to support training of the current and future workforce.

Our vision is that the construction industry is a career of choice, and is safe, skilled and sustainable.

Our mission, in collaboration with our stakeholders, is to offer initiatives to develop and sustain an agile construction workforce and to advocate construction as a career for everybody.

## What we do

### ► Provide grants to employers to offset the cost of hiring apprentices and trainees.

Our apprenticeship and traineeship grants for employers helps reduce the cost of training apprentices and trainees. There is a base grant for employing these new workers and additional funding is available for employing apprentices or trainees who are female, Aboriginal or Torres Strait Islander, mature age or based in a regional area.

### ► Subsidise training for the construction industry to upskill, re-skill and ensure a safe work environment.

We provide a subsidy of up to 80% of course costs for workers involved in construction. This allows existing construction employees to stay up to date with current trends, build on their skills to do their current role, or explore new roles within the industry. There are a variety of short courses available including construction skills for onsite work, industry codes and regulations, computer software programs and workplace health and safety.

### ► Conduct research on industry trends.

The Construction Training Council sits within the CTF and conduct research and find insights into the latest industry trends. They consult with a range of stakeholders to make sure that training packages are current and provide findings from data collected on the workforce shortages and demands.

### ► Develop and deliver initiatives to attract and retain people to the construction workforce.

We fund programs to help school aged students explore construction as a career, as well as promote careers in the industry to post school leavers and mature age job seekers. Some of the initiatives include tours of the Construction Futures Centre, Try-A-Trade programs and the CTF Pre-Apprenticeship Scholarship program. Our team visit schools and other community expos to promote career options and explain the training pathways in the construction industry in WA.

### ► Consult with industry to understand their needs.

A stakeholder working group is consulted annually about their needs within industry, this allows us to keep our information current. It also helps determine where funding is best placed to support industry.

# How the Construction Training Fund can help you

The CTF can help you explore and determine which career in the building and construction industry suits you.



## Construction Futures Centre

### CONSTRUCTION FUTURES CENTRE



At the Construction Futures Centre (CFC) in Belmont we have a range of interactive displays, arcade-style games and virtual reality simulators, as well as information about the many career options in the industry. At the centre, you can explore the Occupations Oracle which allows you to indicate your work preferences and it will generate which careers you are best suited to. Visiting the centre is a great starting point to determine what opportunities you would like to explore further.

To discover more about the CFC or make a booking please visit: <https://ctf.wa.gov.au/construction-futures>

## Try-A-Trade Program

The Try-A-Trade program gives you the opportunity to get hands on and try some actual tasks you would undertake in construction trades. Each Try-A-Trade course runs for up to three days and focuses on two to three trades. The CTF funds Registered Training Organisations to deliver the courses, so there is no cost to schools or participants to get involved. Students can participate in Try-A-Trade through school, or individuals can apply to participate in a program run during the school holidays or on a weekend. These opportunities are also available to post school leavers and mature age jobseekers who might be considering a career change but want to give it a try before jumping in.

To find out more and register your interest visit: <https://ctf.wa.gov.au/construction-futures/try-a-trade>

## Pre-Apprenticeship Scholarship Program

The CTF Pre-Apprenticeship Scholarship Program involves the completion of a fully-funded pre-apprenticeship course with a whole lot of add-ons. Not only will you complete a Certificate II pre-apprenticeship course which can contribute to your Western Australian Certificate of Education (WACE) while you complete high school, you will get mentoring support and additional job readiness training along the way. We also provide participants with their uniforms free of charge! Students can apply in Year 10 or 11 to complete a one or two-year pathway in Year 11 and/or 12. You will complete theory and practical training, as well as up to 220 hours of work experience. The program is highly regarded by employers and may provide credits or reduced time as an apprentice.

Expressions of interest can be submitted through the CTF website. Registering your interest allows us to contact you when applications open. The selection process requires a short submission of why you should be selected and an interview.

To find out more and register your interest visit: <https://ctf.wa.gov.au/construction-futures/scholarships>

## School Incursions

The CTF's Industry Training Advisors (ITAs) visit schools to attend career expos and provide career presentations to students. The ITAs are the experts when it comes to careers in construction and what pathways to take to start your construction career.

You can book a school incursion by emailing the team at [ita@ctf.wa.gov.au](mailto:ita@ctf.wa.gov.au)



# The Four Sectors of Construction

There are four key sectors in the construction industry. You will find that many of the roles in construction can work across two or more sectors, opening a lot more opportunities for variety in your career pathway.



## Residential

The residential sector builds new houses and renovates existing ones.



## Commercial

The commercial sector is responsible for schools, hospitals, shopping centres and the buildings that make up a city's magnificent skyline.





## Civil

The civil sector connects everything together through roads, bridges, highways and essentials like electricity, gas, water and internet lines.



## Resources

The resources sector comprises mining, oil and gas. Construction in the resource sector includes infrastructure for the extraction, refining, processing or treatment of materials, as well as all of the supporting facilities for a minesite.

# Career profiles



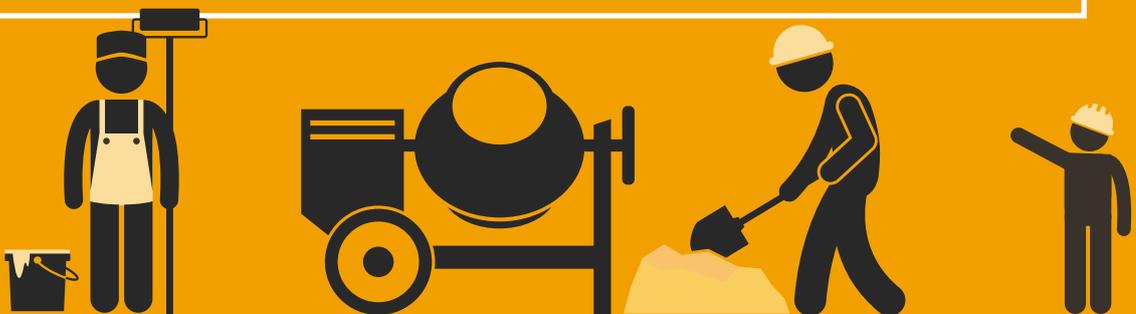
## How to use this section

These career profiles provide you with information about a range of exciting career options in the building and construction industry.

Each of the profiles cover the typical tasks of the role, as well as the skills and personal qualities you need to be successful. We have also included a guide on the qualifications you might need to get started.



You can scan the QR code for each career profile if you want more information – this will take you to our website which includes videos and a bit more detail about the job.



# Airconditioning and Refrigeration Mechanic

Air-conditioning and Refrigeration Mechanics assemble, install, service and repair industrial, commercial and domestic refrigeration and air-conditioning systems in homes, shops, factories, office buildings, sporting facilities and hospitals.



## Qualification

- ▶ Certificate III in Air-conditioning and Refrigeration Servicing.

## Sector

Residential / Commercial / Resources

## What does a typical day look like?

Every day is different and varies depending on the job, but you may be involved in:

- ▶ Following plans, blueprints and specifications to assemble and install refrigeration or air-conditioning components and systems.
- ▶ Working with electricians, pipe fitters and carpenters, installing ducting for air-conditioning.
- ▶ Starting up, calibrating, testing lines, recording readings and detecting leaks or issues with a system or unit.
- ▶ Servicing faulty industrial and household refrigerators and air-conditioning units and repairing or replacing faulty parts.

## Skills and personal qualities

- ▶ Interpreting technical drawings, blueprints and plans.
- ▶ Attention to detail.
- ▶ Problem solving skills.
- ▶ Work as a team or independently.
- ▶ Be able to work at heights.
- ▶ Adaptable to changing technology.
- ▶ Enjoy doing a practical job and have mechanical ability.
- ▶ Safety awareness.
- ▶ Good time management, numeracy, reading and writing skills.

## How to get started

To become a fully qualified tradesperson you will need to complete an apprenticeship, Certificate III in Air-conditioning and Refrigeration. You can get a head start on this career by completing a pre-apprenticeship course to gain a Certificate II in Split Air-conditioning and Heat Pump Systems.

To see full career profile please scan this QR code



# Architect

Architects must be professionally licensed and are highly trained in the science and art of building design to make sure these structures meet the functional, safety and economical needs of the people who will use them.



## Qualification

- ▶ University degree.

## Sector

Residential / Commercial

## What does a typical day look like?

Every day is different and varies depending on the job, but you may be involved in:

- ▶ Meeting with clients to establish their needs, budgets and project requirements and create a design brief.
- ▶ Preparing project documentation to include sketches, scaled drawings, aesthetics, and structural and mechanical aspects into the final design.
- ▶ Creating sketches and detailed drawings using computer-aided design (CAD) software.

- ▶ Inspecting construction progress during and after the build to make sure it complies with standards and plans.
- ▶ Working closely with clients, builders, tradespeople, government bodies and local councils.

## Skills and personal qualities

- ▶ Have an interest in design, technology, the Arts, history, culture and environmental concerns.
- ▶ Are creative and good with using computers.
- ▶ Enjoy working with others as well as good interpersonal and communication skills.
- ▶ Level-headed and able to analyse and critically assess problems.

## How to get started

To become a qualified Architect, you will need to complete a higher education degree in architecture. After graduating you will need to register with the Architects Board of Western Australia to become a practicing Architect, or you may want to complete postgraduate studies to specialise in your chosen field.

To see full career profile please scan this QR code





## Boilermaker & Welder

Boilermakers and Welders possess a unique set of skills involving cutting, rolling, shaping, heating, assembling, and welding steel to construct and install metal products for steel structures, boilers, iron, ships and other vessels. They are responsible for the routine maintenance, repairing and upgrading of structures to ensure efficiency and make sure environmental standards are being met.

### Qualification

- ▶ Certificate III in Engineering - Fabrication Trade (Boilermaker/Welder).

### Sector

Residential / Civil / Commercial / Resources

### What does a typical day look like?

Every day is different and varies depending on the job, but you may be involved in:

- ▶ Installing, inspecting, repairing boilers, and evaluating their performance to eliminate leaks and defects.
- ▶ Determining the requirements for a job by studying blueprints, specifications, and fabrication drawings.

- ▶ Using hand tools, metal cutting machines and flame cutting torches to cut, bend, shape and align pipes and metal sections.
- ▶ Utilising a range of equipment from robotic and automatic welders to hand held power tools.
- ▶ Polishing, smoothing, and cleaning welds using grinding, filling, chiselling and acidic solutions to finish products.
- ▶ Follow strict safety procedures and wear appropriate protective clothing.

### Skills and personal qualities

- ▶ Good level of physical fitness and comfortable working in confined spaces, at heights and in extreme environments.
- ▶ Enjoy practical, hands-on work.
- ▶ Good mechanical and maths skills.

### How to get started

You will need to complete a Certificate III in Engineering (Fabrication Trade). This qualification allows you to specialise in either boilermaking or welding or both specialities.

To see full career profile please scan this QR code



# Bricklayer

Bricklaying is a skilled trade using masonry materials such as clay bricks, concrete blocks, mortar, lintels, cement or pre-cut stone to repair and construct a variety of structures including walls, retaining walls, chimneys, decorative arches and fireplaces in residential housing and commercial projects.



## Qualification

- ▶ Certificate III in Bricklaying and Blocklaying.

## Sector

Residential / Commercial

## What does a typical day look like?

Every day is different and varies depending on the job, but you may be involved in:

- ▶ Preparing and laying brick, stone, concrete blocks and other masonry materials to build or repair walls, partitions, fireplaces and other structures.
- ▶ Using machines and tools to cut and lay bricks, mixing mortar using a cement mixer and shovel, pushing wheel and pack barrows, shoveling, and checking your work using profiles, lines and levels.

- ▶ Reading, interpreting and working from plans, drawings and blueprints.
- ▶ Estimating and calculating the amount of materials required for a project.
- ▶ Sealing foundations, repairing and maintaining structures.
- ▶ Clearing your worksite, keeping it clean and following occupational health and safety requirements.

## Skills and personal qualities

- ▶ Enjoy manual and physical work – good level of fitness.
- ▶ Be able to follow plans and value accuracy.
- ▶ Like variety and working outdoors.
- ▶ Be able to work as part of a team and ok working at heights.
- ▶ Enjoy maths, design and technology and manual studies such as woodworking.

## How to get started

To become a fully qualified tradesperson you will need to complete an apprenticeship, Certificate III in Bricklaying and Blocklaying. You can get a head start on this career by completing a pre-apprenticeship course to gain a Certificate II in Building and Construction (Pathway - Trades).

To see full career profile  
please scan this QR code



# Building Designer

Building Designers use their creative skills and technical building knowledge to produce practical, affordable and sustainable solutions to bring their client's ideas to reality. They draft, design and produce working drawings and specifications for a wide range of projects and may specialise in residential, commercial, public or industrial projects including new buildings and renovations.



## Qualification

- ▶ Certificate II in Building and Construction (Pathway - Para Professional) / Certificate IV in Residential Drafting / Diploma of Building Design.

## Sector

Residential / Commercial

## What does a typical day look like?

Every day is different and varies depending on the job, but you may be involved in:

- ▶ Interpreting drawings and blueprints for building projects.
- ▶ Using computer aided design software to create and produce designs, detailed drawings and other documentation.
- ▶ Understand planning and building standards and ensure compliance with regulations.

- ▶ Communicate effectively with various people including the client, the Building Contractor and local government authorities as required.
- ▶ May work indoors when designing and drawing or outdoors for site inspections.

## Skills and personal qualities

- ▶ Problem solving skills.
- ▶ Strong communication and interpersonal skills.
- ▶ Creative thinking and artistic.
- ▶ Interest in new technologies and trends.
- ▶ Good organisational and time management skills.
- ▶ Careful, methodical and accurate approach to work.

## How to get started

Entry to this occupation is by completion of a pre-apprenticeship course to gain a Certificate II in Building and Construction (Pathway – Para Professional). Other courses offered in Western Australia to become qualified are a Certificate IV in Residential Drafting and a Diploma of Building Design.



To see full career profile please scan this QR code



# Cabinet Maker

Cabinet Makers are specialised woodworkers who make cabinetry and furniture that creates the internal infrastructure of a home. They can build and install kitchen and bathroom cabinets, wall units, built-in robes and display cases from either wood or wood substitutes for both commercial and domestic markets. Cabinet Makers also focus on the finer and more artistic finishes.



## Qualification

- ▶ Certificate III in Cabinet Making.

## Sector

Residential / Commercial

## What does a typical day look like?

Every day is different and varies depending on the job, but you may be involved in:

- ▶ Using templates, drawings and specifications to make and assemble furniture.
- ▶ Preparing drawings from specifications and determining job requirements.
- ▶ Estimating costs, and the quantity and type of materials needed for a job.
- ▶ Building and repairing custom or production type fixtures and furniture including old furniture and antiques.

- ▶ Working with solid timber, flat panel or timber-based products to fit, assemble and install free standing and fitted furniture for the domestic, office, commercial and shop fitting sectors.
- ▶ Use a variety of power tools such as saws, chisels, planes, power tools and computerised machines to cut, shape, mould and assemble components of wood and wood substitutes.

## Skills and personal qualities

- ▶ Good hand-eye coordination.
- ▶ Clear communication skills.
- ▶ Creative and enjoy design.
- ▶ Enjoy manual and practical work.
- ▶ Enjoy working with wood and wood products/ tools.
- ▶ Good at maths, literacy, design and technology.

## How to get started

To get started as a Cabinet Maker you may want to complete a Certificate II in Furniture Making or Certificate II in Cabinet Making Pathways before going on to complete a Certificate III in Cabinet Making apprenticeship.



To see full career profile please scan this QR code



# Carpenter and Joiner

Carpenters and Joiners construct, erect, install, finish and repair wooden and metal structures and fixtures used on the inside and outside of buildings, both for residential and commercial constructions. Carpenters may also work on large concrete, steel and timber structures such as bridges, dams, power stations and civil engineering construction.



## Qualification

- ▶ Certificate III in Carpentry and Joinery.

## Sector

Residential / Civil / Commercial

## What does a typical day look like?

Every day is different and varies depending on the job, but you may be involved in:

- ▶ Building the house framework, walls, roof frame and exterior finish.
- ▶ Installing doors, windows, flooring, stairs, handrails, panelling and moulding.
- ▶ Reading and interpreting plans to determine the dimensions, installation procedures and layout.
- ▶ Cutting and shaping materials and joining them with nails, screws, bolts, or glue.

- ▶ Checking completed units to be sure they are level, square, plumb and the right size, shape and location.
- ▶ Providing accurate quotes to clients.
- ▶ Maintaining and operating hand and power tools safely.
- ▶ Manufacturing architectural joinery, staircases, window frames, sashes and doors.

## Skills and personal qualities

- ▶ Work as a team or independently.
- ▶ Enjoy practical work and have a reasonable level of physical fitness.
- ▶ Good time management and problem solving skills.
- ▶ Can work at heights and have good hand-eye coordination.
- ▶ Good at maths skills, reading and writing.

## How to get started

Entry to this occupation is by completion of a pre-apprenticeship course to gain a Certificate II in Building and Construction (Carpentry and Joinery). Otherwise, to become a tradesperson you will need to complete a Certificate III Carpentry and Joinery apprenticeship.

To see full career profile please scan this QR code



# Because I can...

Overcoming challenges to live your dreams



Many people would assume that living with conditions such as Cerebral Palsy and Parkinson's Disease would limit your career choices in the construction industry, but with hard work and determination these two tradies are making their own rules.

A bricklayer with a passion for life, Wayne Sutherland loved being on the trowel and hadn't given training a second thought until he came back from travelling the world and a friend suggested he should give it a go.

**That was in 2009 and he hasn't looked back since, despite a Parkinson's Disease diagnosis in 2011. Wayne is currently a Trainer and Assessor for Trade Academy WA and loves his job.**

"I guess you could say I stumbled on my niche," Wayne said.

"I think as far as being a tradie goes, you've got to find something that you really like doing, I always loved being on the trowel, but I'm also very fortunate that I love training, it's about talking and connecting with people and my Dad always said I could talk underwater with a mouth full of marbles!

"As far as Parkinson's goes, I've been pretty lucky, even though it was an early onset at 35, it's been a slow progression. I don't let it stop me and I'm pretty honest with the students I teach, sometimes I'm slow in my movement and the way I speak, then once my medication kicks in I can't sit still, then 30 minutes later my movement is normal again. It's better to just address the elephant in the room and I believe that honesty helps my students relate to me."

Wayne said he loves giving back to an industry that he feels he's been really fortunate in.

"I had a great manager at Skill Hire in Carly Waterfield, she was incredibly supportive and really understanding of my situation, I also had a great trainer when I was an apprentice in Eddie Campbell and as a trainer I've tried to model myself on him," he said.

"Training teaches you a lot... I had a young bloke in a youth at risk course that I was locking horns with once and I told my manager at the time that he had to go, but she said to me, 'you don't know what he goes home to at night' and that I might be the only positive male role model in that kid's life. That really resonated with me and made realise that I had the ability to help guide his and others futures.



Wayne said that he often does things 'because he can' and he's always hopeful for improvements in Parkinson's treatments that might lead to a cure.

"Everyone has their bad days, but so many people have it worse than I do," he said.

"Even though I've had Parkinson's for more than 10 years now I don't let it slow me down, I just started doing BMX with my sons, I know there might be more risks to my body, but five years from now, I might not be able to do it at all.

"Sometimes you've just got to do things because you can... and because someone tells you you can't."



**Giving back is a big part of the reason why I love this job, helping someone find their purpose can change their whole life."**



## **That's something that also resonates with Jonty Coniglio, a 19-year-old labourer who is currently working laying underground power on a project in Eden Hill.**

Jonty finished her traineeship 18 months ago and said she loves being a tradie, and is often the only woman working on many of the jobs.

She was diagnosed with Cerebral Palsy at birth, but said she knows her limitations and she's determined to succeed.

"I've been really welcomed by the men in my trade and I'm definitely in the job I want to be in," Jonty said.

"I think with my condition, it's not so much me holding myself back, but other people trying to hold me back. I'm really lucky that I work with a really supportive crew at Cape Utilities and I've had some fantastic mentors who have helped guide me along the way.

"I always figure out a way of doing things that fits me, I know my own limitations and I just work to those."

In a heavily male dominated industry Jonty said she respects the men she works with.

"It can be a bit daunting at first, but it all comes down to your mindset, and I always say to women thinking of becoming tradies, you'll be surrounded by men all day, so you have to be okay with that," she said.

"To be honest, you all have to get used to each other, but that's the same in every team. People sometimes need to be more patient with me because of my limitations, but we work it out.

"I would always prefer that people ask me what I can do instead of assuming what I can't do. I copped that all through my school years and it just made me more determined.

"If someone tells me I can't do it, then I'll prove to them I can."

# Civil Construction

The civil construction field encompasses some of the most essential building projects that are completed in our world each year with the creation of infrastructure involving anything to do with water, earth, or transport.

From massive bridges and tunnels for transportation to walkway construction, pipelaying and wastewater treatment centres to dams. This industry consists of the individuals and companies involved in the planning, creation, and designing of our infrastructure.

It shapes the world around us, and with the new technology that is increasing productivity, civil construction projects can now be done on a much quicker schedule. A civil construction worker is typically involved in all facets of general civil construction works, including manual excavation, concreting, laying pipes, pavement repair, grade checking and simple levelling, site drainage and traffic control.



## Qualification

- ▶ Certificate III in Civil Construction.

## Sector

Residential / Civil / Commercial / Resources

## What does a typical day look like?

Every day is different and varies depending on the job, but you may be involved in:

- ▶ Compacting, levelling and spreading materials to form roads and footpaths.
- ▶ Performing minor repairs to road surfaces, maintaining bridges and repairing signs and signposts.
- ▶ Loading and unloading equipment and cleaning work sites.
- ▶ Digging trenches so that footings and services can be laid, using hand tools and jackhammers, to break up rock and concrete.
- ▶ Learning to drive backhoes, bulldozers, excavators, front-end loaders, graders, scrapers, skid steer loaders, rollers and forklift trucks.
- ▶ Operating machinery to level, excavate, move and load earth, rock and other material.
- ▶ Scaffolding, dogging or rigging, simple levelling, site drainage and traffic control.

## Skills and personal qualities

- ▶ Enjoy being outdoors.
- ▶ Enjoy practical work and have a reasonable level of physical fitness.
- ▶ Work as a team or independently.
- ▶ Have a strong awareness of safety and can follow instructions.

## How to get started

To become a fully qualified tradesperson you will need to complete a Certificate III in Civil Construction apprenticeship. To get a head start on your career you can complete a Certificate II in Civil Construction pre-apprenticeship.

To see full career profile  
please scan this QR code



## Future Pathways and opportunities

By completing additional training you can add more licenses/ qualifications to your portfolio which will give you more variety in your job role. Given the broad scope of civil construction there are many areas to specialise in and with further training and experience your career could lead you into site supervision or management roles.

## Other career opportunities include:

- ▶ Site Supervisor.
- ▶ Civil Construction Manager.
- ▶ Leading Hand.



**In 2021, Civil Construction changed from a traineeship to an apprenticeship. The Certificate III in Civil Construction enables you to specialise in a particular area or undertake a general civil construction stream.**

**The eight specialisations include:**

- ▶ Bituminous Surfacing.
- ▶ Bridge Construction and Maintenance.
- ▶ Pipe Laying.
- ▶ Road Construction and Maintenance.
- ▶ Road Marking.
- ▶ Tunnel Construction.
- ▶ Timber Bridge Construction and Maintenance.
- ▶ Traffic Management.



# Civil Construction

## Types of plant operators

### Backhoe Operator

Backhoe Operators operate machinery and large vehicles to level, excavate, load, break, drill, compact and move earth, rock and other materials from site. This machine looks like an overgrown tractor, but the real skill is in the precision of using the front and rear buckets. They help to install and repair buildings, landscaping, water/gas lines, street paving and sewers as well as digging trenches on civil infrastructure or largescale commercial projects.

### Bulldozer Operator

Bulldozer Operators work with the big machines which prepare sites for the construction process from destruction work to the movement of materials such as large quantities of soil. Operators are responsible for ensuring the safe and effective use of the dozer onsite as well as avoiding risks and hazards. As a Bulldozer Operator you will drive and manoeuvre bulldozers to clear land, debris, rubble, and other objects on construction sites.

### Excavator Operator

An Excavator is a bit like the Tyrannosaurus Rex of the construction industry, the king of the machinery. An Excavator Operator skillfully controls and drives these beasts, digging, moving, and loading earth, rock, or other materials to dig trenches and other holes necessary for laying piping and other infrastructure. You will also be responsible for the inspection of equipment and performing routine safety checks on the vehicles.

### Forklift Operator

Forklift Operators are responsible for the safe and efficient use of a forklift to locate, relocate, shift and stack cartons, containers, crates and pallets of goods and materials in factories, construction sites, warehouses, storage yards and other work sites. Brickworks, timber and building supply companies employ forklift operators to safely load trucks and storage areas, on and off-site. You may also find yourself unloading ships, freight train cars and airplane cargo holds.





## Grader Operator

A Grader Operator is skilled at operating the heavy machinery that prepares the ground for construction of roads, airport runways and other structures that require flat, smooth surfaces. They build and maintain dirt and gravel access roads and prepare surfaces for asphalt. Additional technology, such as lasers, may be used to guide the grader operator in preparing the ground levels for correct drainage. As a Grader Operator you may work as part of a small team or with a large crew on civil engineering, mining, and construction projects.

## Earthworks Supervisor

The Earthworks Supervisor oversees the entire process and manages the foundations for a range of different projects including residential, commercial developments or large-scale civil infrastructure projects. This role is the first point of contact during the initial preparatory work of a project for all contractors on site.

Managing an earthworks team requires a strong knowledge of earthworks and plant operations. Many Earthworks Supervisors may start in a trade such as concreting then build up on site experience before moving into a supervisory role. They may also start out as a Civil Construction Worker.



# Living her best life

Lizzy Eaton, Second Year  
Apprentice Concreter



**When Lizzy Eaton left the police force, she wasn't sure what was next, then a friend connected her to the ABN Group's training program and now she's a second year apprentice concreter and loving every minute of it.**

About 11 years into her career as a cop, Lizzy Eaton realised the force wasn't for her. She was searching for something that would appeal to her love of physical fitness, but wanted to avoid the emotional and mental stress that came with being a police officer.

She took a year off and then serendipity played its hand, when she was connected to the ABN Group and given a choice of trades; bricklaying or concreting. Eighteen months in she said she's glad every day that she chose concreting.

"I needed a sea change and the reason I chose a trade is because I wanted to do something physical, I wanted to work outside and I wanted to challenge myself to see if I could do it,"

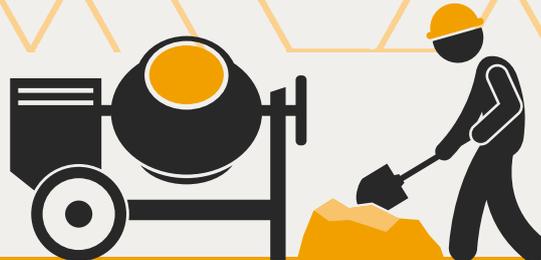
Lizzy said.

"I also wanted to get paid while I was learning, which is the beauty of an apprenticeship.

"Working in the police force I was used to working in a male dominated industry, but nothing prepares you for what hard work concreting is.

"When I had to choose between the two trades I thought, I'll give concreting a go, there's no other female concreters so I'll be a bit of a novelty. I'm so glad I made that decision."

Lizzy said that her host trainer Brad Johns is one of the best things about her day-to-day and she feels incredibly lucky they get to work together.



"Nothing prepares you for how hard concreting is, for the first few months I was absolutely exhausted, it is like an all-day work out every day, we did some huge jobs in those first couple of weeks. I have a massive appreciation now for concreters and how hard they work."

"I love that when we're laying a house slab, that's the start of someone's dream... when the slab's down, it's the start of the rest of their life, their dream home, it's so rewarding to be literally building someone's dream for them. There's a lot of pride in that for me."

Lizzy said if she had any advice for women considering becoming tradies it would be to not be afraid to take a chance.

"I'd love to see an all-female concreting team. I think if you want to be a tradie, you just have to get stuck in. There's always going to be an element of other people thinking "well, we'll just see how she goes" but if you have the determination to succeed you will, in your own way," she said.

"Becoming a concreter is the best decision I've ever made. I wish I'd done it years ago."

"Last year I won the HIA First Year Apprentice of the Year and it was a really big moment. The best advice I can give anyone wanting to start an apprenticeship, whether you're mature-age like me or younger is don't be afraid to try, even if you suck to start with, you will learn the ropes, and you'll prove to yourself that you can do it."

"I'm living my best life as a concreter, I absolutely love it. The early starts are fine, there's no shift work, and I go home each night and get to switch off. There's also a huge sense of satisfaction at the end of a job, I'd recommend it to anyone."



"I remember my first day on the job, it was the middle of March and it was really hot. I went to meet Brad, we hit the ground running and have ever since, he's a machine and such a gracious trainer, I've learnt so much from him,"

# Concreter

Concreters place, spread, compact, finish and cure concrete for buildings, roads, tunnels, bridges and marine structures using hand tools, vibrators, pumps, trowelling machinery and other power tools. For most jobs, concrete is mixed at a pre-mix concrete supplier's factory and delivered to the site in a pre-mix concrete truck. There is a growing industry in pre-cast concrete, where concrete elements are cast and cured in factories and then transported to site for erection.



## Qualification

- ▶ Certificate III in Concreting.

## Sector

Residential / Civil / Commercial

## What does a typical day look like?

Every day is different and varies depending on the job, but you may be involved in:

- ▶ Mixing cement, gravel, sand and water to make concrete on site.
- ▶ Moving pre-mixed concrete into position using concrete pumps.
- ▶ Spreading and levelling concrete into formwork.
- ▶ Using trowelling machines to float, trowel and polish concrete surfaces.

- ▶ Pouring and erecting precast concrete panels on site.
- ▶ Reading plans and calculating quantities.
- ▶ Creating different surface textures by tamping, smoothing and shaping the concrete surface with a variety of hand tools.
- ▶ Cutting joints into hardened concrete.
- ▶ Mixing and applying pigments when a coloured surface is required.
- ▶ Digging foundation trenches if working on residential or small commercial projects.

## Skills and personal qualities

- ▶ Work as a team or independently.
- ▶ Enjoy practical work and have a reasonable level of physical fitness.
- ▶ Time management, reading, writing skills and problem-solving skills.

## How to get started

To become a tradesperson, you will need to complete a Certificate III in Concreting apprenticeship. To get a head start on your career you can complete a pre-apprenticeship to gain a Certificate II in Building and Construction (Pathway - Trades).



To see full career profile  
please scan this QR code



# Contract Administrator

Contract Administrators organise all aspects of building contract work. They assist clients with understanding building contracts, keep track of and review all documentation and ensure all parties adhere to the agreed requirements in the contract and report on progress. Contract Administrators may also manage any contract conflicts.



## Qualification

- ▶ Certificate IV in Building Project Support (Contract Administrator).

## Sector

Residential / Commercial / Civil / Resources

## What does a typical day look like?

Every day is different and varies depending on the job, but you may be involved in:

- ▶ Manage a construction contract from start to finish.
- ▶ Liaise with a range of professionals involved in the project including the client, suppliers, contractors, and subcontractors.
- ▶ Have an in-depth understanding of building and planning regulations and requirements for risk management and to identify the advantages and disadvantages of a contract.

- ▶ Provide advice and information to clients and ensure the contract fulfills their requirements.
- ▶ Manage time extensions, issue contract variations, process progress claims, and resolve disputes where necessary.
- ▶ Read and interpret plans and specifications.
- ▶ Co-ordinate and attend site meetings and provide technical expertise if required.

## Skills and personal qualities

- ▶ Good at maths, English and business studies.
- ▶ Excellent attention to detail, accuracy, critical thinking skills and can multitask.
- ▶ Excellent time management and organisational skills.
- ▶ Good interpersonal and communication skills.

To see full career profile please scan this QR code



## How to get started

To become a Contract Administrator you can complete a pre-apprenticeship, Certificate II in Building and Construction (Pathway – Para Professional). Alternatively, you can complete a Certificate IV in Building Project Support (Contract Administrator).

# Demolition Worker

Demolition Workers safely demolish, dismantle and remove building structures and materials including brick, timber, concrete and metal. They assess building structures to determine the most efficient methods of demolition, establish exclusion zones, and remove hazardous materials before beginning demolitions.



## Qualification

- ▶ Certificate III in Demolition.

## Sector

Residential / Commercial / Civil

## What does a typical day look like?

Every day is different and varies depending on the job, but you may be involved in:

- ▶ Operating different types of demolition tools and small plant equipment safely.
- ▶ Dismantling buildings, stripping external and internal fittings for recycling.
- ▶ Erect and dismantle restricted height scaffolding.

- ▶ Carry out manual and mechanical general demolition.
- ▶ Use explosive power tools.
- ▶ Cut and bend materials using Oxy/LPG equipment.

## Skills and personal qualities

- ▶ Be able to understand technical drawings and plans.
- ▶ Have a careful, methodical and accurate approach to work.
- ▶ Problem solving skills and enjoy practical work.
- ▶ Working in the elements and getting dirty.
- ▶ Work as a team.

To see full career profile please scan this QR code



## How to get started

Entry to this occupation is by completing a Certificate III in Demolition traineeship.

# Dogger and Rigger

The terms Dogger and Rigger can sometimes be used interchangeably, although there are some key differences between the roles. In WA the two roles are merged in the same qualification. A Dogger (or crane chaser) works with a crane operator to safely and efficiently sling and direct loads handled by cranes on construction sites as well as inspecting lifting gear to ensure safety.



A Rigger performs the same duties as a Dogger, however they possess more skills specific to rigging, allowing them to perform more advanced rigging techniques.

## Qualification

- ▶ Certificate III in Rigging.

## Sector

Residential / Civil / Commercial / Resources

## What does a typical day look like?

Every day is different and varies depending on the job, but you may be involved in:

- ▶ Directing and guiding crane operators when lifting and lowering loads into position.
- ▶ Estimating the size, shape, weight and centre of gravity of loads and making sure they do not exceed lifting capacities of cranes.
- ▶ Attaching lifting devices to hoisting equipment and items to be moved using bolts and knots and applying different slinging techniques.

- ▶ Using hand signals, whistles or two-way radios when the load, or its destination, is not visible to crane or winch operators.
- ▶ Inspecting chains, slings, ropes, cables, hooks and lifting gear for flaws and damage such as cracks, wear, rust, mildew and corrosion, and reporting defects.
- ▶ Complying with strict safety policies at all times and wearing protective clothing such as hard hats, protective boots, safety glasses, ear protection and high visibility clothing.
- ▶ Erecting cranes and mobile crane booms and increase the height of tower cranes by bolting component parts in place and rigging cables.

## Skills and personal qualities

- ▶ Enjoy hands on practical work and have good manual skills.
- ▶ Decent level of physical fitness ok working at heights.
- ▶ Strong awareness of safety issues.
- ▶ Excellent communication skills and able to deliver instructions carefully and accurately.

## How to get started

Entry into this occupation is by completing a Certificate III in Rigging.

To see full career profile please scan this QR code



# Drafter (Residential)

Residential Drafters work with building designers and architects to create concepts, plans, drawings and elevations to bring housing and renovation projects to life. They specify the materials, procedures, dimensions, and all other details that the architects and designers might need for a project.



## Qualification

- ▶ Certificate IV in Residential Drafting.

## Sector

Residential

## What does a typical day look like?

Every day is different and varies depending on the job, but you may be involved in:

- ▶ Liaise and collaborate with individual clients, sales consultants, designers and architects.
- ▶ Interpret client briefs, prepare and develop sketch plans for client approval and help prepare building specifications for building plans.
- ▶ Analyse architects' or other designs, and create and alter preliminary sketches and detailed instructions.

- ▶ Prepare working drawings manually or use computer software to show plans, elevations, sections, materials and finishes, as well as other aspects such as layouts, plumbing, drainage and landscaping.
- ▶ Represent or assist architects on building sites to make sure that plans and specifications are followed.

## Skills and personal qualities

- ▶ Good time management, organisational skills, and attention to detail.
- ▶ Good interpersonal and communications skills.
- ▶ Enjoy using creative and artistic skills.
- ▶ Be able to visualise ideas in three-dimensional form.
- ▶ Strong technical skills and enjoy technical drawing and computers.

## How to get started

Complete a Certificate II in Building and Construction (Pathway - Para Professional) for an introduction to drafting. To become a fully qualified Residential Drafter you will need to complete a minimum Certificate IV in Residential Drafting.

To see full career profile please scan this QR code



# Electrician

Electricians install, test, repair, maintain and modify electrical equipment, wiring and control systems. They use wires and cables to connect electrical equipment, such as heaters or lighting, to electrical power sources. They also use electronic test instruments to trace and diagnose faults, as well as test and maintain electrical connections to ensure they are not faulty.



## Qualification

- ▶ Certificate III in Electrotechnology (Electrician).

## Sector

Residential / Civil / Commercial / Resources

## What does a typical day look like?

Every day is different and varies depending on the job, but you may be involved in:

- ▶ Installing, altering, repairing and maintaining electrical systems designed to provide heat, light, power, signals or fire alarms for all types of buildings, structures and premises.
- ▶ Reading and interpreting electrical, mechanical and architectural drawings and electrical code specifications to determine wiring layouts.
- ▶ Cut, thread, bend, assemble and install conduits and other types of electrical conductor enclosures and fittings.
- ▶ Positioning, maintaining and installing distribution and control equipment such as switches, relays, data cabling, circuit breaker panels and fuse enclosures.

## Skills and personal qualities

- ▶ Be able to understand and interpret technical drawings, blueprints and plans.
- ▶ Can analyse information to trouble shoot problems.
- ▶ Keen interest in new technologies.
- ▶ Be able to distinguish colours to work with colour coded wiring.
- ▶ Have a careful, methodical and accurate approach to work.
- ▶ Have an awareness of safety issues, especially for working at heights and in confined spaces.
- ▶ Work as a team or independently.
- ▶ Enjoy practical work and have a reasonable level of physical fitness.
- ▶ Good time management, reading, maths and problem-solving skills.

## How to get started

To become a tradesperson, you will need to complete a Certificate III Electrotechnology (Electrician) apprenticeship. To get a head start on your career you can complete a pre-apprenticeship to gain a Certificate II in Electrotechnology.

To see full career profile  
please scan this QR code



# Let your light shine



Ebony Antonio, Electrician



**For Fremantle Docker and Electrician Ebony Antonio a career as a tradie made perfect sense and she's hoping other women will be inspired enough by her story to also join the ranks.**

Like a lot of teenagers Ebony Antonio had no idea of what she wanted to do and was "living in the moment" when she finished school.

Then she started working for her Uncle's company concreting and pressure cleaning and fell in love with the idea of being a tradie.

And it's an idea she says she's very glad she followed through with, now that she's finished her four year electrical apprenticeship and is happily on the tools.

"When I finished school I was playing a lot of basketball, having fun, but my parents were keen for me to choose a career pathway, so I got a casual job at Target and then started work for my Uncle's company and I absolutely loved it," she said.

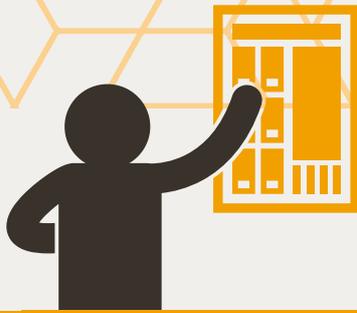
"I knew I always wanted a job where I was outside instead of behind a desk at an office, so a trade made perfect sense.

"Now that I've finished my apprenticeship, being an electrician also works really well with football, I'm usually finished by 3pm, so it leaves me enough time to train and also be a part of the club."

Ebony finished her apprenticeship two years ago and said she has learnt so much since she finished it. But she still remembers her first day on the job like it was yesterday.

"To be honest I was really nervous, its daunting starting something new, and I didn't know what to expect and how the guys on the job would treat me," she said.





"But I was really lucky, because I was a mature-age apprentice, the guys weren't too much older than me and they were totally comfortable with having a woman on the job and were really generous with their time."

"As soon as that first week ended, I knew I was in the right place."

Ebony said she lives by her Dad's mantra of "if you have a good worth ethic and you show initiative you'll fit in anywhere" and it has served her well in both her trade and sporting careers.

"In both instances I knew I had a lot to learn and I just got in, showed initiative and worked hard. I think if you do that you can really learn anything you put your mind to," Ebony said.

"Just like anything you have to get to know people's personalities, and read their body language. There will be people you really click with and some you don't, but if you can all respect each other, then you'll work together to become a strong team."

She said her advice to women considering a trade was to "dive right in" and help inspire young women of the next generation.

"Don't be afraid to stand tall and prove to yourself and your friends and family that you can make it in a male dominated industry," she said.

"In the future I'd love to see more female CEOs in the construction industry, I think women have natural leadership skills, we show a lot of initiative and have common sense in spades, so I'd love to see that shift for the next generation, to have those female role models in the industry to look up to.

"So many more women are taking up trades, but we're still outnumbered, there's only 3% of female trade apprentices in WA and I'd love to see that rise to at least 15%.

"I'm really passionate about it and I think if you have a trade behind you, the world really is your oyster."



**I'm really proud of breaking down the barriers of a male dominated industry and I'm a real advocate for getting more girls to take up a trade and break down that old-fashioned stigma around it. We need more girls in the construction industry.**

**"If you believe in yourself, anything is possible."**



# Pre-Apprenticeship Pathways

Complete the below Certificates to start your future career path in WA's construction and building workforce today.



## Certificate II in Building and Construction

Pathway - Trades



BRICK AND BLOCK LAYING

CARPENTRY AND JOINERY

PAINTING AND DECORATING

CONCRETING

CARPENTRY

ROOF TILING

SOLID PLASTERING

WALL AND CEILING LINING

WALL AND FLOOR TILING



## Certificate II in Building and Construction

Pathway - Para Professional



DESIGN

PRE-START CONSULTING

ESTIMATING

SCHEDULING

CONTRACT ADMINISTRATION

DRAFTING





## Certificate II in Civil Construction

## Certificate II in Plumbing

## Certificate II in Construction

Pathway - Building Maintenance\*



### PLANT OPERATIONS

ROAD, RAIL, BRIDGE OR TUNNEL CONSTRUCTION

TRENCHLESS TECHNOLOGY

PIPELAYING/DRAINING

BITUMINOUS SURFACING

ROAD MARKING



### PLUMBING & GASFITTING

ROOF PLUMBING



Students complete maintenance tasks that may involve: brick and blocklaying, carpentry, solid plastering, wall and floor tiling, waterproofing, joinery, stonemasonry, painting and decorating.



*\*This pathway is restricted to students in remote communities, aboriginal or disengaged students, which could include youth at risk.*

# Engineer

As an Engineer you have the opportunity to create profound changes and innovative improvements in society across a range of diverse and interesting careers.



The work of engineers can be seen everywhere in the world around us and impacts and improves the way we live, work, travel and communicate and as new technologies emerge the demand for engineers only increases.

Engineering encompasses technology, maths and science and may involve designing, planning, building and overseeing large scale projects within the civil, residential, commercial and resource sectors.



## Skills and personal qualities

- ▶ Critical thinking, analytical skills and excellent problem solving.
- ▶ Strong communication and interpersonal skills.
- ▶ Natural curiosity, willingness to learn and have a creative mind.
- ▶ Methodical and pay close attention to detail.
- ▶ Excellent numeracy.
- ▶ Excellent technical knowledge and interested in new technologies and trends.
- ▶ Be safety conscious and have a mature responsible approach to your work and colleagues.
- ▶ Be a team player and be able to work unsupervised.

## How to get started

To become a qualified engineer, you will need to complete Year 12 to enable entry into a university degree program in Engineering. It is a good idea to contact individual university engineering schools to check if they have any pre-requisites before selecting your Year 11 subjects. Your school careers advisor may be able to help you with information on how to ensure you have the correct qualifications for enrolment.

For a more detailed career profiles of each type of Engineer please scan QR code



## Types of engineering

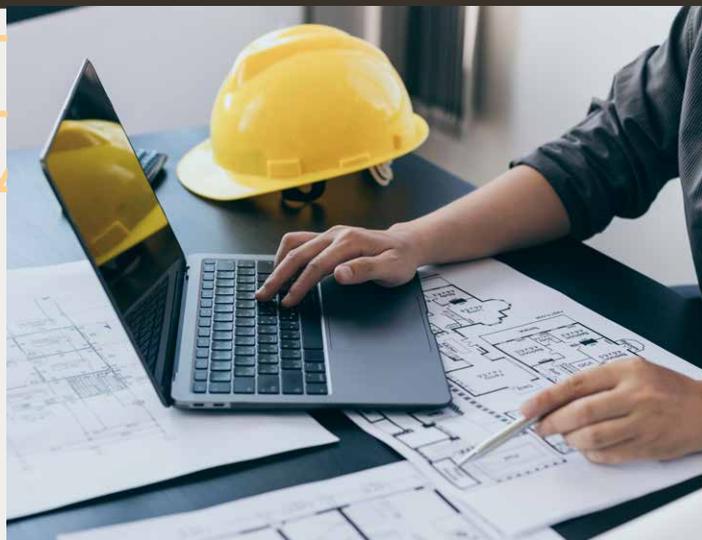
The major branches of engineering include civil, mechanical, chemical, and electrical, and under each branch there are hundreds of different subcategories:

### Civil Engineer

Much of the physical infrastructure of our modern society is provided by civil engineers. With a growing population in Western Australia, there is a need for more and more civil infrastructure. There will be a need for qualified Civil Engineers to work on the design, planning and management of large construction projects such as airports. Civil Engineers plan, design, construct, operate and maintain roads, bridges, dams, pipelines, sewerage systems, transportation, harbours, dockyard facilities, airports, railways, factories, towers and large buildings.

### Civil Site Engineer

Site Engineers direct and oversee the on-site flow of work, materials and equipment on civil engineering projects. They coordinate and direct the on-site activities of construction projects including roads, bridges, dams, pipelines, airports and other structures, and gas, water and sewer systems. They are skilled in engineering project management, cost estimation and interpreting complex plans and specifications and employed by government departments, engineering consultancies, construction contractors and mining companies.



### Highway Engineer (Civil)

Roads play a vital part in the function of almost every society and efficient road systems are needed to transport everything from food for supermarket shelves, ore from mine sites, agricultural goods from farms, and people to and from work and leisure activities.

Highway engineers plan, design and maintain safe, efficient roads, highways and public transit systems. They specialise in analysing population and growth statistics, traffic patterns and volume to project future requirements. Highway engineers work closely with government officials and other specialists to help design efficient and safe traffic systems. Highway engineers also study roadway and embankment design, the geometry of highway interchanges and the maintenance of facilities such as culverts and overpasses.

### Irrigation/Drainage Engineer (Civil)

Irrigation/drainage engineers use tests and measurement tools to ascertain soil characteristics – such as soil type, salinity, water table level, plant growth, surface profile – to calculate or estimate rates of water flow and other factors that may influence the methods and types of drainage required to support structures to be built on particular sites. They report on findings, design and supervise the preparation of plans showing channels, conduits, mains and ditches. Irrigation and drainage engineers may divide their time between office work, building sites and laboratories, creating and studying models to analyse construction and flow issues.



### Geotechnical/ Soil Engineer (Civil)

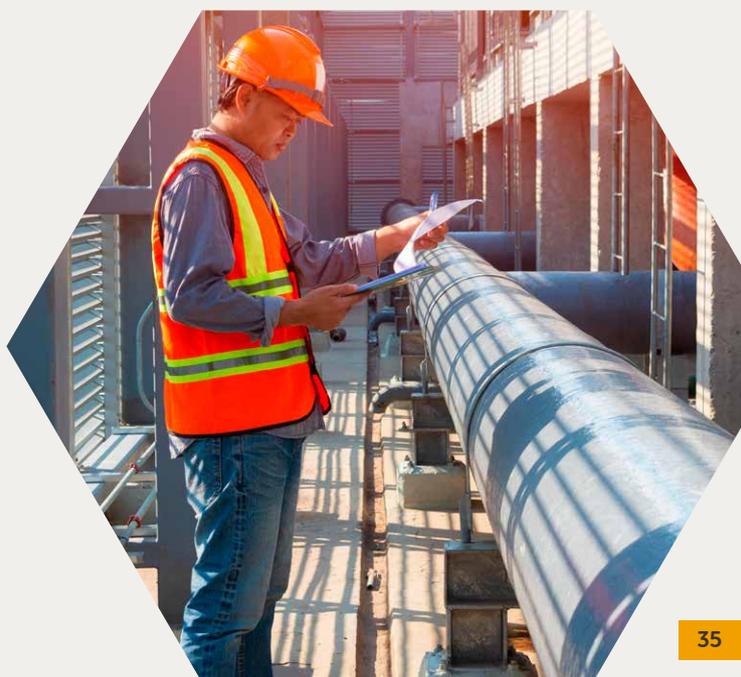
Geotechnical/soil engineers investigate the soil and bedrock below proposed building sites to determine their engineering properties and how they will interact with the planned construction. They determine and design the type of foundations, earthworks and pavements required to withstand the pressures resulting from the man-made structures to be built. They design foundations for such structures as high-rise buildings, bridges and medium to large commercial buildings and may also work on smaller structures where soil conditions present challenges. They design structures to be built in soil or rock, including tunnels, embankments, earth dams, channels, reservoirs, and hazardous waste landfills.

### Structural Engineer (Civil)

Structural Engineers design and supervise the construction of all types of structures including framework for buildings, towers, bridges, tunnels and other structures to ensure strength and rigidity. Factors which must be considered include tolerable stress within given safety margins, vibration allowances, size, shape, appearance and economy. They also study developments of new materials and methods and their impact on design and construction. Specialisations include Building Information Modelling (BIM) Coordinator / Manager and BIM Specialist.

### Mechanical Engineer

Mechanical engineers oversee all aspects of the design, development, installation, operation and maintenance of machinery. They are involved in a wide range of building and construction industry sectors including power generation and refrigeration and air-conditioning. They may specialise in areas such as engineering design, production, and plant maintenance, and frequently work closely with other professionals, pooling expertise on particular projects, e.g. with architects in designing air-conditioning plants.



# Day in the life of a Pre-apprentice

## Leah Horsting, 16

Student at Aveley Secondary  
College, Ellenbrook



Leah is currently in Year 11 and is one of CTF's Pre-Apprenticeship Scholarship Program students completing a Certificate II in Building and Construction (Pathway-Trades). She is part of a group who are focused on a carpentry and bricklaying pathway with Skill Hire every Friday at the Aveley Secondary College campus.



"We do it every Friday and I love it, we've been building miniature houses, so the tradies have been teaching us how to do everything they'd do on-site on a smaller scale. John from Skill Hire is great. He really talks you through things.

"Building the little houses is rewarding, you can see what you've done and the progress you're making and feel proud of that.

"I knew that I'd enjoy carpentry from woodwork classes at school. A normal school day goes from 8am to 3pm, but these days last a bit longer, I don't mind though because I learn a lot. So far I really like carpentry, but it's good to learn the bricklaying skills too.

"Learning a trade helps me with other parts of school too, it teaches you good problem solving, I'm glad I get to do this in year 12 too.

Leah aspires to work for her Grandad who is a carpenter when she finishes school. "My grandad has his own business, so I hope I get to work with him some day, that would be my dream." She currently helps him out on the weekends when she has the time.



It's really nice to know I'm getting a head start in something I want to do.

"I'm also getting to meet new people and have made some good friendships out of the scholarship too. I'd definitely recommend it."



# Environmental Designer

Environmental Designers assess and incorporate all environmental factors into the design of a construction project to promote synergy between objects and their surrounding environment. It incorporates elements of architecture, landscape architecture and environmental geography. They employ smart design choices and features to create energy efficient homes and buildings.



## Qualification

- ▶ Bachelor of Environmental Design.

## Sector

Residential / Commercial

## What does a typical day look like?

Every day is different and varies depending on the job, but you may be involved in:

- ▶ Designing buildings that are both functional and environmentally responsible.
- ▶ Using high-tech computer software programs to design projects as well as reading design briefs, blueprints and building specifications.

- ▶ Applying the theories of planning, policy, environmental, urban, architectural and landscape design to inform design approaches and decision making.
- ▶ Selecting and approving materials and techniques as well as estimating costs and surveying sites for a project.
- ▶ Proposing solutions for environmental sustainability and recommending the placement of new buildings.

## Skills and personal qualities

- ▶ Good problem-solving skills.
- ▶ Creative thinking, good spatial skills and artistic.
- ▶ Interest in new technologies and trends.
- ▶ Careful, methodical and accurate approach to work.

## How to get started

To become an Environmental Designer, you will need to complete a bachelor degree in Environmental Design at university. Contact individual universities for course availability and determine if they have any pre-requisites before selecting your Year 11 subjects and applying. Your school careers advisor can help you with information on how to enrol at university.

To see full career profile please scan this QR code



# Estimator

Estimators are responsible for providing estimate costs for residential, commercial or civil construction projects. They determine project size and whether a project goes ahead or not, based on the detailed associated costs provided. Estimators consider expenses for things such as materials, labour, land and equipment.



## Qualification

- ▶ Certificate IV in Building Project Support (Estimator).

## Sector

Residential / Civil / Commercial

## What does a typical day look like?

Every day is different and varies depending on the job, but you may be involved in:

- ▶ Identifying and producing estimated costs for building and construction projects.
- ▶ Working with managers to evaluate scope, value and timeframe of projects and budgets.
- ▶ Creating and interpreting plans, drawings and other documents.

- ▶ Managing and monitoring budgets for existing projects.
- ▶ Estimating the equipment, manpower and materials required to complete a job.
- ▶ Ensuring job specifications and standards are met and can work to a deadline.

## Skills and personal qualities

- ▶ Be able to understand technical drawings and plans.
- ▶ Have a careful, methodical and accurate approach to work.
- ▶ Time management, reading, writing and problem-solving skills.
- ▶ Have excellent maths skills.
- ▶ Have good interpersonal skills and the ability to deal with a range of personalities.

## How to get started

Entry to this occupation is by completion of a pre-apprenticeship course to gain a Certificate II in Building and Construction (Pathway - Para Professional) or alternatively you can complete a Certificate IV in Building Project Support (Estimator).

To see full career profile please scan this QR code



# Glazier

Glass and glazing workers cut, shape and install the glass used in windows (including shopfronts), doors, walls, mirrors, display cabinets and furniture. They also do decorative work such as stained glass and feature mirrors.



## Qualification

- ▶ Certificate III in Glass and Glazing.

## Sector

Residential / Commercial

## What does a typical day look like?

Every day is different and varies depending on the job, but you may be involved in:

- ▶ Installing and replacing glass, aluminum and related products in buildings, furniture and other products.
- ▶ Using a variety of glasscutters and tools.
- ▶ Assembling pre-made glass units, such as shop fittings, display cases and shower enclosures.
- ▶ Measuring openings, producing shop drawings, and marking and cutting glass to fit.
- ▶ Installing, fitting, fabricating and attaching architectural metals or related substitute products in commercial and residential buildings.

- ▶ Installing and maintaining pre-fabricated glass, mirrors or glass products on walls, ceilings, fronts of buildings, handrails and walkways.
- ▶ Replacing safety glass, double glazed glass, windows, windshields, shower screens and glass in furniture and other products.

## Skills and personal qualities

- ▶ Be able to understand technical drawings and plans.
- ▶ Have a careful, methodical and accurate approach to work.
- ▶ Can work at heights and have a reasonable level of physical fitness.
- ▶ Enjoy practical, manual work and be able to work as a team or independently.
- ▶ Time management, reading, writing skills and problem-solving skills.

## How to get started

To become a Glazier you will need to complete of a Certificate III Glass and Glazing apprenticeship.

To see full career profile please scan this QR code



# Interior Designer

Interior Designers plan and detail commercial and residential building interiors by providing advice and practical assistance on the finishing and furnishing of existing interior spaces. They may work as interior decorators or colour consultants for retail, consulting and building businesses by specifying furniture, lighting, walls, partitions, flooring, colour, fabrics and graphics to produce the bespoke environment required.



## Qualification

- ▶ Certificate IV in Interior Decoration.

## Sector

Residential / Commercial

## What does a typical day look like?

Every day is different and varies depending on the job, but you may be required to:

- ▶ Design, draft, read and interpret plans.
- ▶ Ensure the space is effective and efficient.
- ▶ Liaise with the client to determine the requirements.
- ▶ Provide advice to the client on the design and specifications of a space.
- ▶ Work with architects to design a space.

- ▶ Estimate costs of material, labour and works to be completed.
- ▶ Prepare and administer tender and contract documents.
- ▶ Arrange for labour, material and supplies to be on-site when required.

## Skills and personal qualities

- ▶ Have a careful, methodical and accurate approach to work.
- ▶ Keep up-to-date and be interested in changing trends in décor and design.
- ▶ Have the ability to troubleshoot problems.
- ▶ Good technical knowledge and skills.
- ▶ Good interpersonal and communication skills.

## How to get started

To become qualified as an Interior Designer, you will need to complete a Certificate IV in Interior Decoration. To get a head start on your career you can complete a pre-apprenticeship in Certificate II in Building and Construction (Pathway - Para Professional). Further studies include a Diploma of Interior Design or an Advanced Diploma of Interior Design.

To see full career profile please scan this QR code



# Mechanical Fitter

Mechanical fitters are highly skilled craftspeople who use a range of tools and engineering techniques to manufacture, construct, assemble, fit and repair components made of metal and other materials for machinery.



It is an extremely versatile trade with the ability to work in various industries including civil construction, manufacturing, the military, mining and car industries, power plants, and working on commercial and industrial piping systems.

## Qualification

Certificate III in Engineering - Mechanical Trade.

## Sector

Commercial / Civil / Resources

## What does a typical day look like?

Every day is different and varies depending on the job, but you may be involved in:

- ▶ Interpreting diagrams, drawings, specifications, blueprints and plans to determine suitable material and sequence of operations.
- ▶ Constructing and assembling fabricated parts to produce mechanical systems and tools as well as setting up and adjusting tools and equipment.

- ▶ Operating a range of specialised tools and machinery including lathes, drilling, milling and thermal cutting machines to cut, grind and shape metal and other materials.
- ▶ Testing, diagnosing and repairing faults with defective tools or machinery, and performing regular maintenance.
- ▶ Use precision measuring instruments to check parts for accuracy and fit.
- ▶ Examining structural systems with attention to local and state building codes.
- ▶ May be working in dusty, hot and noisy environments with most of the day standing.

## Skills and personal qualities

- ▶ Be able to work to time sensitive deadlines and have good time management skills.
- ▶ Comply with strict health and safety guidelines.
- ▶ Be good at maths, English and digital technology.

## How to get started

You will need to complete a Certificate III in Engineering - Mechanical Trade apprenticeship to become a qualified Mechanical Fitter.



To see full career profile please scan this QR code



# Metals Engineer - Fabrication

Metal Fabricators select and prepare metal stock for a wide range of fabrication work such as structural steel erection, sheet metal work, welding, blacksmithing, surface finishing and repairing metal structures such as boilers and pressure vessels. Sheet metal and light metals are used as a building material for roofs, heating, ventilation, air-conditioning duct systems, guttering and downpipes, window and door frames, fasteners and flashings for homes and other buildings.



## Qualification

▶ Certificate III in Engineering - Fabrication Trade.

## Sector

Residential / Commercial / Civil / Resources

## What does a typical day look like?

Every day is different and varies depending on the job, but you may be involved in:

- ▶ Marking out, cutting, shaping and joining sheet metal using hand and power tools such as shears, drill presses and laser/plasma cutting equipment.
- ▶ Assembling, welding and installing metal parts and sections and sheet metal products together.
- ▶ Use riveting, welding, soldering and similar equipment to fabricate products such as ventilation shafts, exhaust hoods and air and heat ducts.

- ▶ Follow plans, blueprints and specifications, and lay out, measure and mark sheet metal according to drawings or templates.
- ▶ Study blueprints, drawings and specifications to determine job requirements.
- ▶ Construct steel columns, beams and girders on commercial and industrial sites.

## Skills and personal qualities

- ▶ Be able to understand and interpret technical drawings, blueprints and plans.
- ▶ Enjoy practical and manual activities using tools and equipment to perform tasks requiring precision.
- ▶ Have a careful, methodical and accurate approach to work.
- ▶ Have an awareness of safety issues, hazardous gases and working at heights.

## How to get started

To become a Metals Engineering tradesperson you will need to complete a Certificate III in Engineering - Fabrication Trade.



To see full career profile please scan this QR code



# Painter and Decorator

Painting and Decorating is a finishing trade. Painters apply paint, varnish, wallpaper and other finishes to protect, maintain and decorate interior and exterior surfaces of domestic, commercial and industrial buildings and other structures.



## Qualification

- ▶ Certificate III in Painting and Decorating.

## Sector

Residential / Commercial

## What does a typical day look like?

Every day is different and varies depending on the job, but you may be involved in:

- ▶ Sanding and preparing surfaces to be painted.
- ▶ Filling any holes and cracks before priming.
- ▶ Brushing, rolling or spraying substrates.
- ▶ Cleaning brushes, rollers and other equipment.
- ▶ Working at heights; using extension ladders, elevated work platforms (scissor lifts/boom lifts) and erecting and dismantling scaffolding.

- ▶ Applying decorative paint finishes such as stencils, colour glaze, wood graining and marbling.
- ▶ Applying wallpaper to various substrates.
- ▶ Applying protective coatings; marine vessel, industrial coating, fireproof and fire-retardant coatings.

## Skills and personal qualities

- ▶ Able to work as a team or independently.
- ▶ Good problem solving skills and hand eye coordination.
- ▶ Enjoy practical work and have a reasonable level of physical fitness.
- ▶ Creative, attention to detail and normal colour vision.
- ▶ Enjoy subjects such as visual arts, maths, design and technology.

## How to get started

To become a tradesperson, you will need to complete a Certificate III in Painting and Decorating apprenticeship. You can get a head start on your career by completing a pre-apprenticeship to gain a Certificate II in Building and Construction (Pathway - Trades).

To see full career profile  
please scan this QR code



# Day in the life of a

## Painting and Decorating Apprentice

### Lachlan Pike, 26

Second Year apprentice  
at Visual Effects



"It's an early start, I normally get up at about 5.30am, and then I'm onsite by 7am, the great thing about that though, is I'm finished by 3pm, earlier sometimes, which is great in both winter and summer.

"I run after work in the afternoons usually, I started last Christmas because I noticed I was getting fitter with my job and wanted to keep it up. I think with painting when you're squatting a lot and climbing up and down ladders a good level of fitness helps.

"I was drawn to painting because I'm creative, I've always enjoyed art. There's something really therapeutic about painting, it's a very visual thing, so you can see what you've already done and that's really rewarding.

"I'd say we're inside painting about 70% of the time and outside about 30% of the time, and painting is different depending on the seasons, paint dries quicker in summer, but sometimes winter gives you a slower pace and extra time.

"People often ask me about the paint fumes on the job and how we handle it all day, we follow best practice on the job, we wear a P3 respirator and there's also dust masks available, you're always protected, and we ventilate areas we're working in. Using this protection becomes second nature after a while.

"I came to painting from a career in disability services and retail, I'd thought about painting before, but people talked me out of it.

"Honestly though, if I knew how much I'd enjoy it, I would have started much earlier!

"I was also really lucky to be paired up with my boss Dom, he has a decorative painting background and a real attention to detail.

"We're a crew of three and we normally paint the inside of houses, we get some nice feedback from owners sometimes, recently an owner of a period house in Inglewood that we helped restore the decorative painting on gave us all presents!

"The thing I love the most about my job is the team I work at Visual Effects and I love 'cutting in', that's when you use the brush to paint where any different edges come together, like on cornices, skirtings, door frames and windows.

"I'd recommend this trade to anyone who's creative... it's mindful, but stimulating and calming at the same time. Houses are also usually painted in stages, so no two days are the same.



**I'm a passionate painter and I have a great lifestyle. Applying paint is so satisfying, it's physical, but not too much and you can engage with it, but also switch off a little. I love what I do."**

# Plumber and Gasfitter

Plumbers and Gasfitters are responsible for installing more than just plumbing inside a house. They use a variety of skills, tools and materials to install systems for hot and cold water, heating, sanitation, drainage and guttering, water tanks and solar water heating systems while consistently ensuring their work complies with current regulations.



## Qualification

- ▶ Certificate III in Plumbing and Gasfitting.

## Sector

Residential / Commercial / Resources

## What does a typical day look like?

Every day is different and varies depending on the job, but you may be required to:

- ▶ Renovating, maintaining and repairing existing plumbing.
- ▶ Installing, maintaining and repairing hot water systems.
- ▶ Digging trenches, installing vents and flues.
- ▶ Assembling and installing valves and fittings and joining pipe sections.
- ▶ Connecting gas appliances such as hot water heaters, ovens, boilers and furnaces.

- ▶ Starting up and adjusting new or repaired equipment, and preparing reports.

## Skills and personal qualities

- ▶ Be able to understand technical drawings and plans.
- ▶ Have a careful, methodical and accurate approach to work.
- ▶ Problem solving skills and enjoy practical work.
- ▶ Can work at heights and in confined spaces.
- ▶ Work as a team or independently.
- ▶ Enjoy practical work and have a reasonable level of physical fitness.
- ▶ Time management, reading and writing skills.

## How to get started

To become a tradesperson, you will need to complete a Certificate III in Plumbing and Gasfitting apprenticeship. You can get a head start on your career by completing a pre-apprenticeship to gain a Certificate II in Plumbing.

To see full career profile  
please scan this QR code



# Pre-start Consultant

Pre-start Consultants assist clients with the materials and color selection process during the initial consultation phase when designing a new home, renovation, or commercial space. It involves helping the client choose colours, materials, white goods and layouts including electrical and plumbing hardware.



## Sector

Residential / Commercial

## What does a typical day look like?

Every day is different and varies depending on the job, but you may be required to:

- ▶ Negotiate and advise clients in the early phase of the building process and maintain regular communication throughout the duration of the build.
- ▶ Liaise with external suppliers to source items for the client.
- ▶ Arrange and advise on pricing.

- ▶ Consult with other relevant departments including estimating, drafting, scheduling and site supervision.
- ▶ Understand building terms, documentation, drawings and specifications.
- ▶ Understand shire, council, city and state legislation that impacts the building process.

## Skills and personal qualities

- ▶ Have a professional, organised approach to work.
- ▶ High level of communication and negotiation skills.
- ▶ Be creative and stay up-to-date in current trends in décor and design.
- ▶ The ability to multi-task and be able to problem solve.

## How to get started

If you are interested in becoming a prestart consultant, you can enroll in the Certificate II in Building and Construction (Pathway – Para Professional). Other options are to complete a Certificate IV in Interior Decoration or learn on the job with training from an employer.

To see full career profile  
please scan this QR code



# Project Manager

A Project Manager takes overall responsibility for the planning, management, coordination and financial control of a construction project, whether it be a residential complex, hospital, football stadium or freeway extension. They manage the overall time, cost and quality of the project, provide technical support to office staff, supervisors and suppliers, control and coordinate adherence to building codes and ensure client requirements are met in accordance with contract documentation.



## Qualification

- ▶ Diploma of Project Management.

## Sector

Residential / Commercial / Civil / Resources

## What does a typical day look like?

Every day is different and varies depending on the job, but you may be involved in:

- ▶ Scheduling the job flow of a project using Gantt charts, planning timeframes, costs, managing the budget as well as the materials and labour requirements for a project.
- ▶ Continually monitoring the progress to ensuring that all work is being completed on time, within budget and to quality standards agreed upon.
- ▶ Creating relevant documentation such as scope, agreements to variations, signing off and contractual documents as required.

- ▶ Working with other professionals including engineers, architects, team supervisors and suppliers and hiring contractors and ensuring the tasks to be completed are clearly explained.
- ▶ Ensuring all safety standards and guidelines are followed and maintained.

## Skills and personal qualities

- ▶ Good knowledge and solid understanding of technologies and building techniques.
- ▶ Able to work under pressure and keep a level head with sound judgement and decision-making skills.
- ▶ Have a careful, thorough, and accurate approach to work including a high level of safety awareness.
- ▶ Good analytical and critical thinking skills, maths skills and problem-solving skills.
- ▶ Excellent time management and organisational skills, as well as excellent interpersonal and communications skills.

## How to get started

Several years of relevant experience in the building industry and a formal qualification, such as a Diploma in Building and Construction (Management) or a Diploma in Project Management is usually required to work as a project manager.

To see full career profile  
please scan this QR code



# Rail Infrastructure worker

Rail infrastructure workers install, maintain and repair rail and tram tracks, signals and associated bridges and tunnels for passenger trains, freight trains, light rail and trams. They may also work on tracks used in quarries and by the mining industry.



## Qualification

- ▶ Certificate III in Rail Infrastructure.

## Sector

Civil / Resources

## What does a typical day look like?

Every day is different and varies depending on the job, but you may be involved in:

- ▶ Lay and fix the foundations and sleepers for tracks.
- ▶ Cut rails to length and install railway switches.
- ▶ Repair and maintain worn or rough rail ends.
- ▶ Remove and replace damaged track.
- ▶ Operate a two-way radio.

- ▶ Examine and maintain switch signal lamps and the wheel bearings of rolling stock.
- ▶ Use a range of tools and equipment including welding, industrial bolting equipment and large industrial machinery.

## Skills and personal qualities

- ▶ Reasonable level of physical fitness.
- ▶ Problem solving skills and enjoy practical work.
- ▶ Good hand-eye coordination.
- ▶ Always safety conscious.
- ▶ Time management, reading and writing skills.
- ▶ Willing to work outside in most weather condition, inside tunnels, mines and other enclosed spaces.

## How to get started

Entry to this occupation is by completing a Certificate II in Rail Infrastructure as an entry level qualification leading into a Certificate III in Rail Infrastructure traineeship.

To see full career profile please scan this QR code



## Future Pathways and opportunities

**Rail Infrastructure workers do not tend to transition into "Above Rail" roles such as train drivers. They would likely move into roles from the Cert III Rail Infrastructure such as:**

- ▶ Track Maintenance and Construction
- ▶ Specialist Track Installer
- ▶ Track Examiner
- ▶ Light Rail Track Worker.



# Registered Builder

Builders coordinate, oversee and work on the construction, repair and renovation of homes and other buildings. They are in charge of selecting, managing and coordinating the tradespeople throughout the construction process and liaising with clients. Builders often start as a tradesperson, such as a bricklayer or carpenter, and may undertake some of the work personally.



## Qualification

- ▶ Diploma of Building & Construction (Building).

## Sector

Residential / Commercial

## What does a typical day look like?

Every day is different and varies depending on the job, but you may be involved in:

- ▶ Overseeing the construction of a project, including communicating with suppliers, clients and workers on site.
- ▶ Organising and managing subcontractors and materials.
- ▶ Arranging, reading and interpreting drawings/blueprints and calculating materials required.
- ▶ Estimating costs and scheduling material and labour to arrive on time for each section of the project.

- ▶ Ensuring work is being completed according to all relevant building codes and regulations.
- ▶ Carrying out some parts of the work you are qualified to complete.
- ▶ Carry out regular inspections and manage the project quality, safety and any risks.

## Skills and personal qualities

- ▶ Excellent planning, organisational and time management skills.
- ▶ Demonstrate leadership and management skills.
- ▶ Accuracy and attention to detail.
- ▶ Good literacy and numeracy skills.
- ▶ Have good communication and interpersonal skills.
- ▶ Be physically fit for the physical demands of the job.

## How to get started

Most builders start their careers with an apprenticeship in a building trade. After gaining their trade qualification, and with further building experience, they study to become a Registered Builder with a Diploma of Building and Construction (Building).

To see full career profile  
please scan this QR code



# Roof Plumber

Roof Plumbers ensure that your house or building doesn't leak by installing gutters, downpipes and roof sheeting on residential, industrial and commercial buildings.



## Qualification

- ▶ Certificate III in Roof Plumbing.

## Sector

Residential / Commercial

## What does a typical day look like?

Every day is different and varies depending on the job, but you may be involved in:

- ▶ Fabricating and installing guttering, downpipes and roof sheeting on residential building roofs in accordance with blueprints and specifications.
- ▶ Assessing and repairing leaks including disposing of old materials safely.
- ▶ Designing and installing roof drainage systems for different roof types.

- ▶ Calculating quantities, areas, volumes, etc necessary for specified roofs from plans and blueprints.
- ▶ Estimating materials required and quoting costs.

## Skills and personal qualities

- ▶ Be able to understand technical drawings and plans.
- ▶ Have a careful, methodical and accurate approach to work.
- ▶ Problem solving skills and enjoy practical work.
- ▶ Can work at heights.
- ▶ Work as a team or independently.
- ▶ Have a reasonable level of physical fitness.
- ▶ Time management, reading and writing skills.

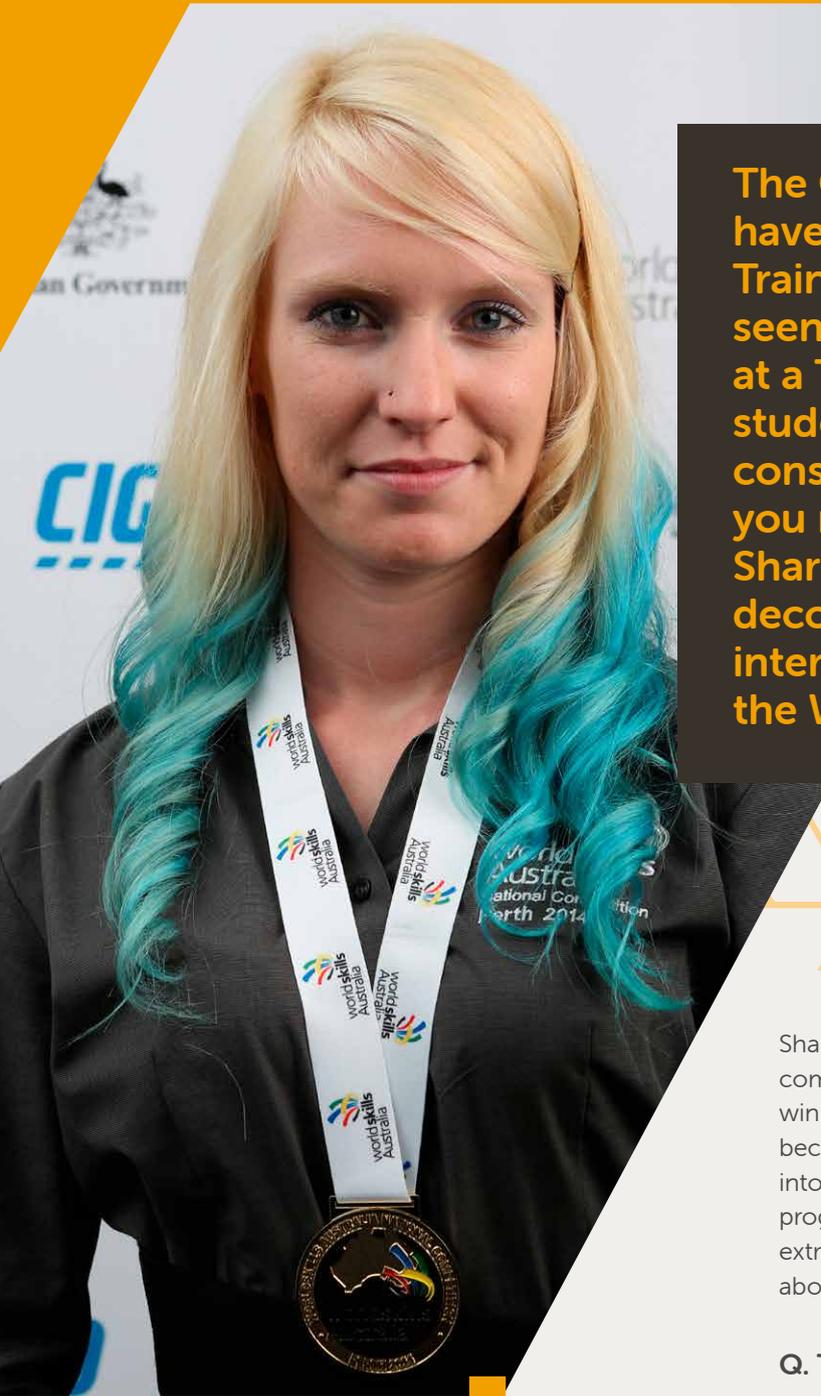
## How to get started

Entry to this occupation is by completing a Certificate III in Roof Plumbing apprenticeship.

To see full career profile  
please scan this QR code



# On the World Stage



The CTF is incredibly lucky to have Sharlene Kidd as an Industry Training Advisor. You might have seen her at an expo, giving advice at a Try-A-Trade, or chatting to students at your school about construction careers, but what you might not know about Sharlene is she's also a highly decorated painter who competed internationally in Brazil in 2015 at the World Skills competition.

Sharlene has had an amazing career journey so far, completing a painting and decorating apprenticeship, winning a scholarship to start her own business, becoming a painting and decorating trainer, and moving into a program coordinator role managing school-based programs for MPA Skills. She is energetic, organised and extremely knowledgeable. We asked her a few questions about her career pathway...

## **Q. Tell us how you found yourself in Brazil.**

**A.** My field officer at the time suggested I put myself down to compete in a regional apprentice of the year competition. I came first in the competition which qualified me to compete nationally in Australia, where I won gold! This qualified me to go to Sao Paulo Brazil, where I came 10th in the world for painting and decorating. Brazil was an indescribable experience, to be representing your country is an amazing feeling. I also learnt other countries painting techniques and how to be more resilient in stressful situations.



**Q. What is the best thing about the World Skills Competition?**

**A.** It challenges you to be better at what you do, and you get recognition for doing a great job. I am still involved in World Skills national competitions as a judge which is a really exciting opportunity.

**Q. Do you still get the paintbrushes out now and then?**

**A.** Yes, I love to get the paint brushes out and do some painting, nothing makes me happier.

**Q. Do you remember your first day on the job? What's your advice for apprentices?**

**A.** I was the only female on-site, so on my first day I was a little nervous. The advice I would give is don't let one bad experience on-site ruin your construction career.

**Q. Is there a life motto you live by?**

**A.** Live life to its fullest, be positive and jump at any opportunity that comes your way.

**Q. What's next for you?**

**A.** I love what I am doing now but I know my career path could take me anywhere as there are so many opportunities in construction.



**Q. The best thing about your job?**

**A.** Having the opportunity to inspire young females to start a career in construction. I enjoy advising people looking to complete an apprenticeship, and people already completing an apprenticeship because I know first-hand the fantastic benefits and career opportunities that can be created.



# Scaffolder

Scaffolders erect and dismantle scaffolding to provide work platforms on building and industrial sites, and for temporary structures such as staging and seating.



## Qualification

- ▶ Certificate III in Scaffolding.

## Sector

Residential / Commercial / Resources

## What does a typical day look like?

Every day is different and varies depending on the job, but you may be required to:

- ▶ Fit and bolt tubes, support braces and components to form bases and build up scaffolding.
- ▶ Lift and position sections of scaffolding.
- ▶ Erect guard rails, guy wires, ropes and clamps..
- ▶ Lay planks and hang safety nets.
- ▶ Dismantle and remove scaffolding from building sites.

## Skills and personal qualities

- ▶ Good problem solving skills and enjoy practical work.
- ▶ Enjoy working at heights and in the elements.
- ▶ Work as a team or independently.
- ▶ Have a reasonable level of physical fitness.
- ▶ Able to lift heavy material.

## How to get started

Entry to this occupation is by completing a Certificate III in Scaffolding apprenticeship.



To see full career profile  
please scan this QR code



# Scheduler

Schedulers are responsible for organising projects so that plans are in place, the machinery arrives on cue, there are adequate tradespeople and managers to perform certain tasks and the necessary materials arrive on site and on time. They work to deadlines and ensure the project is completed within budget.



## Qualification

- ▶ Certificate II in Building and Construction (Pathway - Para Professional).

## Sector

Residential / Commercial

## What does a typical day look like?

Every day is different and varies depending on the job, but you may be required to:

- ▶ Working with managers and supervisors to ensure tasks are being completed on time.
- ▶ Reading and interpreting plans and specifications.
- ▶ Liaising with suppliers.

- ▶ Identifying and producing estimated costs for building and construction projects.
- ▶ Arranging the schedule for equipment, tradespeople and materials required for a job.
- ▶ Managing current and future budgets of the project.
- ▶ Ensuring job specifications and standards are met.
- ▶ Working to a deadline.

## Skills and personal qualities

- ▶ Be able to understand technical drawings and plans.
- ▶ Efficient, be able to work as a team, good time management and organisational skills.
- ▶ Have good interpersonal skills and the ability to deal with a range of personalities.
- ▶ Excellent numeracy and administration skills.

## How to get started

Entry to this occupation is by completion of a pre-apprenticeship course to gain a Certificate II in Building and Construction (Pathway- Para-Professional) which can lead into a traineeship with a building company. You can then further your studies with a Certificate IV in Building and Construction (Estimator).



To see full career profile  
please scan this QR code



# Solid Plasterer

Solid Plastering is a finishing trade which involves preparing surfaces and applying various mortar and plaster finishes to interior and exterior walls. The Plasterer's finished work inside and outside a building is what people see every day.



The majority of plastering work comes from new construction projects, however recently there has been increasing interest in the heritage restoration of older homes and public buildings which provides further opportunities for skilled plasterers.

Decorative cement mouldings for restoration and renovation designs requires attention to detail and creativity in their craft.

## Qualification

- ▶ Certificate III in Solid Plastering.

## Sector

Residential / Commercial

## What does a typical day look like?

Every day is different and varies depending on the job, but you may be involved in:

- ▶ Vertical and horizontal levelling and straightening of walls and ceiling surfaces.
- ▶ Mixing and applying coats of plaster, cement mortars and new products such as Texture coats, Metal effects and Venetian decorative plasters.

## Skills and personal qualities

- ▶ Have a high level of physical fitness and able to work at heights.
- ▶ Time management and ability to plan and organise tasks.

## How to get started

Entry to this occupation is by completing a Certificate III in Solid Plastering apprenticeship.

To see full career profile  
please scan this QR code



# Stonemason

Stonemasons work with a range of materials such as limestone, sandstone, bluestone, slate, marble and granite. They may be involved in the design and manufacture of kitchen bench-tops and bathroom vanities or specialise in ornamental work such as commercial stone facades for new construction projects, fireplaces, banker masonry and carving.



## Qualification

- ▶ Certificate III in Stonemasonry.

## Sector

Residential / Commercial

## What does a typical day look like?

Every day is different and varies depending on the job, but you may be required to:

- ▶ Cut and shape stone and masonry materials using machines or hand tools.
- ▶ Cut and polish granite and marble for use in construction.
- ▶ Estimate the quantity of materials required and interpret drawings.
- ▶ Design, cut and carve ornamental masonry using templates for detailed work and a variety of chisels, punches and hammers.

- ▶ Construct walls using stone slabs and large masonry slab blocks.
- ▶ Fix stone facades to buildings and lay stone paving, granite or marble floor tiles.

## Skills and personal qualities

- ▶ Be able to understand technical drawings and plans.
- ▶ Have a careful, methodical and accurate approach to work.
- ▶ Good problem solving skills and enjoy practical, manual work.
- ▶ Have a reasonable level of physical fitness.

## How to get started

Entry to this occupation is by completion of a Certificate III Stonemasonry apprenticeship.

To see full career profile  
please scan this QR code



# Land Surveyor (Cadastral Surveying)

Surveying and land surveying are the measurement and mapping of the surrounding environment using mathematics and specialised equipment and technology.



Surveyors collect and measure spatial information about the land and environment a project is being built on by taking precise measurements to determine property boundaries, update boundary lines and prepare sites for construction.

## Qualification

- ▶ Certificate III in Surveying and Spatial Information Services.

## Sector

Residential / Commercial / Civil / Resources

## What does a typical day look like?

Every day is different and varies depending on the job, but you may be involved in:

- ▶ Working on site using specialised equipment and technology to measure the size and shape of areas of land.
- ▶ Entering data collected on site and plotting data using specialised computer software.

- ▶ Accurately mapping out positions of boundaries where land is subdivided, bought or sold.
- ▶ Planning and provide advice for developments in land and buildings.
- ▶ Preparing legal documents and draft plans.
- ▶ Working with engineers, architects and construction teams throughout the project.
- ▶ Managing projects from planning through to construction.

## Skills and personal qualities

- ▶ Be able to understand technical drawings and plans.
- ▶ Have a careful, methodical and accurate approach to work.
- ▶ Problem solving skills, good interpersonal and communication skills.
- ▶ Work as a team or independently.
- ▶ Time management, reading and writing skills.
- ▶ Software skills and high level of mathematics.

## How to get started

There are different roles in surveying that require different qualifications. You can complete a Certificate III or IV in Surveying & Spatial Information Services, or a Diploma of Surveying with a Registered Training Organisation, or study a Bachelor Degree at university.

To see full career profile please scan this QR code



# The future is here



Glenn Hickey is the Portfolio Manager Building & Construction at South Metropolitan TAFE, he tells us about Industry 4.0 and why it's changing the face of the industry.

## Q: What does Industry 4.0 bring to the industry?

A: Industry 4.0 brings advanced integration of new technologies and innovative building methods and materials to the industry. It will allow builders to design and construct buildings using renewable energy technologies and sustainable building materials in a more efficient way. Tradies are at the leading edge of an inevitable transition - automation will increasingly take over manual activities within a job role and workers will need to learn to work side-by-side, or in a hybrid role, with machines.

## Q: Tell us about the program...

A: The Try-A-Trade: Industry 4.0 course introduces students to some of the current and emerging skills used to carry out construction tasks on a residential building project. It includes digital literacy skills to use software, including applications on mobile devices to find, retrieve and communicate information. It requires students to recognise a project's Building Information Modelling (BIM) potential and how digital processes might be applied to a modular build project. The course includes a traditional build component and digital literacy skills, such as accessing, comparing, and using 2D drawings and 3D models and related data to clarify construction work requirements, coordinating models and scheduling, sequencing and costing work activities and resources.

# Sustainability Consultant or Environmental Officer

Sustainability Consultants/Environmental Officers are responsible for addressing and finding solutions to issues such as reducing waste, mitigating the effects of global emissions and climate change, and protecting biodiversity.



## Qualification

- ▶ Bachelor Degree in Sustainable Development.

## Sector

Residential / Civil / Commercial

## What does a typical day look like?

Every day is different and varies depending on the job, but you may be involved in:

- ▶ Developing sustainability plans to be implemented both during construction and for the operation of a site.
- ▶ Evaluating and analysing sustainable practices to be used throughout a project such as waste management, water efficiency and sustainability implementation.
- ▶ Performing environmental inspections and audits on sites using drones.
- ▶ Using technology to positively impact the construction industry by improving design and construction practices such as gathering data to monitor energy and water savings.

- ▶ Attending progress meetings with clients and contractors.

## Skills and personal qualities

- ▶ Able to understand and read technical drawings and plans.
- ▶ Have a careful, methodical and accurate approach to work and willingness to learn.
- ▶ Excellent math skills and enjoy working with new technologies.
- ▶ Passionate about sustainability and having a positive impact on the environment.

## How to get started

To become a Sustainability Consultant you will need to complete a Bachelor degree in Sustainable Development at university. Contact individual universities for course availability and determine if they have any pre-requisites before selecting your Year 11 subjects and applying. Your school careers advisor can help you with information on how to enrol at university.

To see full career profile please scan this QR code



## Q: What was the idea behind the program and why was it created?

A: South Metropolitan TAFE established an Industry 4.0 Working Group to advance the integration of new technologies and innovative teaching practices across the college. The Building and Construction portfolio have consulted with industry representatives to ask how automation will support activities within a construction workers job role and what it might mean for workers.

## Q: In your opinion how can the construction industry continue to embrace technology?

A: The use of technology and constant updates in technology, is now part of our everyday working life. The global pandemic, which has limited the availability of materials and skilled workers, along with climate change, is now forcing some builders into re-evaluating how to future proof themselves going forward. Building companies that embrace the 'Smart Factory' model will give themselves an unprecedented advantage over their competitors that continue to rely on traditional building methodology.



To find out more visit: <https://www.southmetrotafe.wa.edu.au/>

# Wall and Ceiling Liner

Wall and Ceiling Liners install suspended and decorative ceilings, often in big modern buildings such as shopping centres, office buildings, schools, hospitals and cinemas as well as new and renovated homes, project housing, luxury homes, apartments and units.



## Qualification

- ▶ Certificate III in Wall and Ceiling Lining.

## Sector

Residential / Commercial

## What does a typical day look like?

Every day is different and varies depending on the job, but you may be involved in:

- ▶ Mixing and applying coats of plaster or cement to walls and ceilings.
- ▶ Making, applying and fixing the internal and external linings.

- ▶ Preparing corner beads and securing them in position as well as plumbing and straightening corners, angles, wall and ceiling surfaces.
- ▶ Cutting plasterboard, lifting and positioning panels, and nailing or securing them with glue to walls and ceilings.
- ▶ Setting and fixing precast ornamental plaster ceilings, cornices, panel mouldings and ceiling centres.

## Skills and personal qualities

- ▶ Be able to understand technical drawings and plans.
- ▶ Have a careful, methodical and accurate approach to work.
- ▶ Enjoy practical work and have a reasonable level of physical fitness.

## How to get started

To become a tradesperson you will need to complete a Certificate III Wall and Ceiling Lining apprenticeship. You can get a head start on your career by completing a pre-apprenticeship to gain a Certificate II in Building and Construction (Pathway - Trades).

To see full career profile please scan this QR code



# Why you should consider the 'wet trades'

## What are wet trades?

The term 'wet trades' is commonly used in the construction industry to refer to trades that work with materials mixed with water.

For example a tiler adding the vital element to any bathroom, a brickie building someone's dream home, a concreter laying a house slab or a ceiling liner hiding all of the wires and wizardry that make homes and buildings operate efficiently and effectively.

The wet trades you might want to consider when deciding on a trade are; tiling, solid plastering, bricklaying, concreting and wall and ceiling lining.

In WA currently all of these trades are looking to attract apprentices, so if you decide on one of these you can pretty much be assured of a job.

The wet trades are hard work, but also incredibly rewarding, and wet tradies must possess considerable skills to shine in their various crafts.



Wet trades supply the finishing touches to many buildings, so these tradies have an attention to detail that is second to none.

## Will you join them?

Find out more about the wet trades in our career's profile section.



# Wall and Floor Tiler

Wall and floor tiling may sound straightforward, but it can be a very complex job when transforming walls and floors into creative masterpieces. Jobs range from renovations to new houses including domestic and commercial kitchens, bathrooms, balconies and facades to industrial premises such as Aquatic centres, swimming pools, water features, shops, hotels, factories and offices.



## Qualification

- ▶ Certificate III in Wall and Floor Tiling.

## Sector

Residential / Commercial

## What does a typical day look like?

Every day is different and varies depending on the job, but you may be involved in:

- ▶ Laying ceramic, rectified porcelain, clay, natural stone tiles on external and internal walls and floors and curved surfaces to provide protective and decorative finishes.

- ▶ Cutting individual tiles to shape and to fit around obstacles and openings.
- ▶ Grouting tile joints, leaving them smooth, clean and even.

## Skills and personal qualities

- ▶ Be able to understand technical drawings and plans.
- ▶ Have a careful, methodical and accurate approach to work.
- ▶ Enjoy practical work and have a reasonable level of physical fitness.
- ▶ Understand colour and design concepts.

## How to get started

To become a tradesperson you will need to complete a Certificate III Wall and Floor Tiling apprenticeship. You can get a head start on your career by completing a pre-apprenticeship to gain a Certificate II in Building and Construction (Pathway - Trades).

To see full career profile  
please scan this QR code



# Work, Health and Safety (WHS) Adviser

Safety in the construction industry is critical and is managed by a Work, Health and Safety (WHS) Adviser. Workplace hazards are identified, health and safety risks are assessed and appropriate policies, procedures, safety controls and advice on accident prevention are implemented to maximise health and safety outcomes within the working environment.



## Qualification

- ▶ Certificate IV in Work Health and Safety.

## Sector

Residential / Commercial / Civil / Resources

## What does a typical day look like?

Every day is different and varies depending on the job, but you may be involved in:

- ▶ Provide advice and promote occupational health and safety practices to develop safer ways of working.
- ▶ Conduct site inspections, risk assessments, and control hazards in the workplace, for example scaffolding or toxic fumes on a construction site.
- ▶ Create documents including policies, procedures, manuals and reports to ensure compliance with WHS legislation.
- ▶ Monitor, review, record and report hazards, accidents, injuries and health issues in the workplace to managers.

- ▶ Ensure personal protective equipment (such as hearing protection, dust masks, safety glasses, footwear and safety helmets) are being used in the workplace where required.
- ▶ Conduct training sessions for management, supervisors and workers on health and safety practices and legislation including the correct use of use personal protective gear.

## Skills and personal qualities

- ▶ WHS systems/ document or compliance writing and development.
- ▶ Ability to interpret and apply WHS Laws and Codes of Practice to meet safety needs.
- ▶ Well-developed public speaking skills to present safety initiatives.
- ▶ Attention to detail.
- ▶ Intermediate developed computer skills.

## How to get started

To become a work safety and health adviser, you require a formal qualification, either a vocational certificate or University degree. You can complete a Certificate III in Work Health and Safety which allows you to become a Work Health & Safety assistant or a Certificate IV in Work Health and Safety.



To see full career profile please scan this QR code



# Other roles to explore

Scan the QR Codes to learn about other Building and Construction careers.



Building Surveyor



Construction Shotfirer



Environmental Advisor



Fire Sprinkler System Installer



Roof Tiler

# What's Next?

Found a career you like? Looking for more information? Need more help?

## Jobs and Skills Centres

<https://www.jobsandskills.wa.gov.au/>

There are 17 Jobs and Skills Centres (JSCs) located throughout Perth and in regional areas across WA that offer free help and support for your job search. They can help with your job search, assist you to apply for jobs, and give you options to upskill and get job ready. They know what's happening in your local area, and where the jobs are because they work closely with the local community, and with local employers and businesses.

## Career practitioners

Most schools in WA have career practitioners within their schools who can help you prepare for careers beyond school. They provide career information and liaise with parents, training providers, employers and industry. Career practitioners can help you plan a pathway for when you finish school.

## National Skills Commission – Australian Jobs 2021

<https://www.nationalskillscommission.gov.au/publications/australian-jobs-2021>

Australian Jobs gives an overview of trends in the Australian labour market. It is designed to support you in understanding the job and labour market. The Australian Jobs publication includes information to help you understand what employers are looking for, as well as typical wages, sector trends and information about what is happening by State and sector.

## Department of Training and Workforce Development - Apprenticeship Office

<https://www.dtwd.wa.gov.au/apprenticeship-office>

The Department of Training and Workforce Development Apprenticeship Office registers and administers training contracts and regulates the apprenticeship system in Western Australia. Their webpage can answer all your questions about undertaking an apprenticeship or traineeship.

## Myfuture

<https://myfuture.edu.au/help-and-support/about-myfuture>

This website is packed full of useful tools, articles and information on careers. Explore real-life stories from past students or access useful advice on writing your resume and applying for jobs.



# The man behind the brand

Dale Alcock, ABN Group Managing Director



**ABN Group Managing Director Dale Alcock is known for his business acumen, attention to detail and generosity in the industry, but did you know he started out as a brickie? Read on to find out more about the man behind the brand.**

## Why are apprenticeships so important?

Apprenticeships are vital to provide our industry a future workforce that is appropriately skilled. It is also critical that we reinvest into our industry to ensure we have the capacity for the growth that WA will experience in the future. Apprenticeships also provide people with the opportunity to 'learn and earn'. This is the start of your career in an industry that has no limits on where you can take it!

## Other than learning a trade, what other benefits do apprenticeships have?

Learning a trade gives you a practical, hands on trade and life experiences. This provides you with the training and knowledge to set you up for success. Apprenticeships set you up to succeed in your career, with practical problem solving skills, and provide you with the confidence and skillset to invest in your career for the long term.

## What do you remember fondly about your own?

Working with my dad and working really hard to be the best that I could be at bricklaying. I wanted to be the best, but also to be as efficient and effective as possible. I was so lucky that I got to not only learn a great deal about brickwork, but also building more generally.

You could say, it set me up for life.

## Was there a piece of advice you were given when you first started out that still rings true today?

Yes. The first brick you lay will be a face brick. Get that right and it doesn't matter how long it takes to get it right. You can then always lay a rough brick fast and well.





### What other life skills do you take away from an apprenticeship?

An apprenticeship provides transferable skills not just related to a trade. Apprentices can take away skills such as practical problem solving, critical thinking, and a great work ethic. It also helps you become confident, dedicated, and resilient, all traits we see in our apprentices. You also get to be fit and work outside, which for most of the year in WA is a great environment.

### You were originally a bricklayer in Kellerberrin, what prompted you to create your brand?

I do believe that every success story is a combination of chance and a great deal of hard work. Chance for me was an opportunity to move from the Wheatbelt to Perth in 1983 and work at a company called Webb & Brown-Neaves. That led to Jan and I becoming partners in a business we started with John Webb and Garry Brown-Neaves in 1987 called Dale Alcock Homes. The rest as they say is history. It's all about taking chances and working tirelessly and relentlessly to succeed.

### Who inspired you in the industry?

My parents have been the biggest inspiration and influence on me. Having grown up in the Wheatbelt in a family that operated a small building company and building supplies business, this Industry was what I grew up in. My parents were always very supportive of my desire to undertake a trade and become a builder. I've probably over delivered on that aspiration and my story should be one that inspires the next generation to make their mark on our Industry.

### Tell us about the ABN Training program, we understand it's very close to your heart...

We established ABN Training in 2004 and this program is ABN Group's proof of our commitment to the future of the building industry. Since inception, we've trained approximately a thousand new tradespeople. ABN Training is so important because I firmly

believe that apprentices, are the future of our building industry and our program ensures a future generation of skilled and well-trained tradespeople from a diverse range of backgrounds. We invest in and produce the best tradespeople, who then train tomorrow's tradespeople. We give our apprentices the best education and training about quality and compliance; this also ensures peace of mind for our customers.

An apprenticeship is a great way to commence a career pathway within the building industry. When our apprentices graduate, we encourage them to stay on at ABN Group as tradespeople, and there is plenty of opportunity to grow from there. We have many ex-apprentices who are now Operation Managers, Building Managers, and General Managers within ABN. The opportunities are endless when you commence an apprenticeship with ABN Training.

### What's your legacy to the industry?

I hope that all that I have achieved and undertaken has been about leaving the industry in a better place than when I entered it. Our apprenticeship program is one very real example of this. Nothing better than to be training tomorrow's builders to be the best they can be and continue the journey.

## The Fast Five

1. Your life mantra... Good manners are always in fashion. Do the little things really well and the big things will take care of themselves.
2. Something you wish you knew sooner? That I was good enough to succeed.
3. Your nickname? Ask someone else... I'm sure they have one or two!
4. Favourite songs? Louis Armstrong 'What a wonderful World', Annie Lennox 'Into the West' and Dire Straits 'Brothers in Arms'.
5. Five words that describe you? Authentic, passionate, driven, leading, relentless.



# Meet the Industry Training Advisors

The CTF's Industry Training Advisors (ITA) have extensive knowledge about the building and construction industry, what employers want and need, and the different training opportunities to help people of all ages to find their way into a construction career.



You might see one of our Advisors at a Try-A-Trade course, at a careers expo, or delivering a presentation at schools. They are very passionate and are always happy to share their expertise and experience. If you would like more information or want to book a time for an ITA to come to your school, workplace or expo, get in touch via email [ita@ctf.wa.gov.au](mailto:ita@ctf.wa.gov.au) or give us a call on 9244 0100.



## Sharlene

Please see pages 46 and 47 for further details about Industry Training Advisor, Sharlene.



## David

David's construction career has seen him travel the world. He travelled to Perth from Scotland in 2008. Although David is super handy on the tools, his passion is helping to train and develop others. Before joining the CTF, he worked as a carpentry lecturer delivering Try-A-Trade, apprenticeship and pre-apprenticeship training at Skill Hire.

**Favourite thing about working in construction:** working in the various sectors - my favourite is the commercial sector because you can choose to work inside or outside.

**Favourite food:** curry.

**Favourite sport:** AFL - go the Dockers!

**What you like to do in your spare time:** relax with my family at the beach.





## Lorraine

Lorraine got into construction by completing a Carpentry & Joinery Apprenticeship as a mature age apprentice. Six months into her apprenticeship, she also began studying at nights to complete a Diploma in Builder's Registration.

During her years on the tools she worked on high rise apartments, schools and hospitals and then ran her own business building custom furniture and teaching women basic tool skills while returning to study completing a Cert IV in Residential Drafting.

Lorraine is passionate about inclusion and diversity in the workforce & has enjoyed every aspect of her career in construction

**Favourite thing about working in construction:** being able to see the work you've achieved at the end of every day

**Favourite animal:** impossible to choose just one

**What you like to do in your spare time:** spend time with my toddler, surf, time away in nature and catching up with friends.



## Steve

Steve has been helping apprentices and trainees across all sectors in his previous roles with MPA Skills and working with an Australian Apprenticeship Support Network provider. He has been working with Construction Training Fund for over seven years, so he is everyone's 'go-to' guy for advice on all things construction and training.

**How you got started working in construction:** I was a home insurance claims assessor for RAC for 7 years

**Special skill:** I have a knack for remembering the postcodes for every suburb in WA

**What you are most well known for:** The Mohawk

**What you like to do in your spare time:** hiking, camping and spending time with my kids



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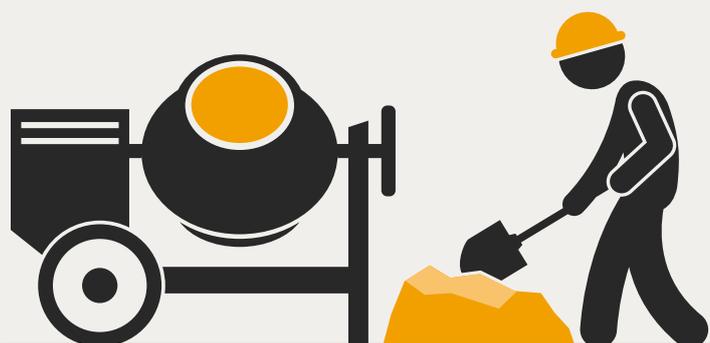
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Thank you for taking the time to explore your potential career pathways through this guide.

We look forward to having you as part of WA's building and construction industry.



### **Contact Information**

**Phone:** (08) 9244 0100

**Email:** [info@ctf.wa.gov.au](mailto:info@ctf.wa.gov.au)

**Post Address:**

PO Box 303, Cloverdale WA 6985

**Business Address:**

104 Belgravia Street, Belmont WA 6104

**Phone Hours:**

Monday – Friday, 8:30am to 4:30pm

[ctf.wa.gov.au](http://ctf.wa.gov.au)

