





skills One

# WHERE TO GO FOR FURTHER INFORMATION





Skills NSW website on how to get an apprenticeship, training, options, support, rights and responsibilities and much more:

<a href="http://education.nsw.gov.au/skillsnsw/">http://education.nsw.gov.au/skillsnsw/</a>
apprentices-and-trainees

- Connecting apprentices and trainees to the right employers:
   www.1300apprentice.com.au
- The Australian Apprenticeships and Traineeships Information Services: www.aapathways.com.au
- Information on NSW Industry sectors: www.business.nsw.gov.au/industry-sec tors/industry-opportunities
- Information on school- based apprenticeships and traineeships (SBATs): www.education.nsw.gov.au/publicschools/ career-and-study-pathways/school basedapprenticeships-and-traineeship
- Careers NSW:
   Offers expert guidance on pathways to employment after school - including education and training options and ways to use your existing skills to your advantage. Make an appointment today.

 SkillsOne television: Hundreds of videos about skills and training:

https://careers.nsw.gov.au/find-your-career.

www.skillsone.com.au

- · National Skills Commission:
- Through their research, surveys, modelling and forecasting, the NSC provides unique insights relating to Australia skills capability, emerging occupations, labour market trends and more. http://www.nationalskillscommission.gov.au/insights
- NSW JobTrainer: Provides fee-free training courses for young people, job seekers and school leavers to gain skills in Australia© growing industries:

https://www.nsw.gov.au/education-and-training/vocational/vet-programs/jobtrainer

- TAFE NSW- All your vocational training needs in one place: www.tafensw.edu.au
- Everything you need to know about Vocational Education and Training (VET) in NSW including the latest in VET news and stories:

  www.education.nsw.gov.au/skills-nsw
- Celebrating the best in vocational training at a region, national and international level: www.worldskills.org.au
- My Skills: Official national directory for VET: www.myskills.gov.au



## VET AS A FIRST CHOICE!

- Nil entry requirements and in some instances study can commence whilst at school.
- Students commence earning while gaining an apprenticeship or traineeship.
- National skills shortage in hundreds of different trade areas.
   Essentially, this means industries and employers are actively looking for carpenters, electricians, mechanics, cooks and hairdressers amongst other roles.
- Broad range of industry sectors covered.
- The difference comes into play when you consider debt left by studying (i.e while a average apprentice will earn an average of \$220,000 over the course of their four-year apprenticeship, a university graduate will be left with an average \$23 860 debt. When it's all over, the apprentice is about \$200,000 ahead of the uni graduate.
- · On-the-job experience is valued highly by employers.
- VET teaches workforce etiquette, skills relevant to the industry and provides a Nationally Recognised qualification, all within a manageable 12–48 month period.
- Studying through VET, you can be confident that you'll be gaining upto-date skills, making great connections, and unlocking new career pathways.
- You will finish a VET course with the skills needed to work in your chosen industry straight away.
- VET also provides an avenue for articulation into higher education, with students being able to use their VET study to gain entry into university. It should be noted that, conversely, some university graduates go on to undertake further VET study too
- New careers and challenges in emerging industry areas such as Renewable energy, agriculture, health, games, industry 4.0 advanced manufacturing. These skills and careers are all available through VET.





### AGRICULTURE/ AGRIBUSINESS

Industries include primary production, plants and animals, textiles, clothing and footwear, forestry, timber and furnishing plus emerging industries around natural resources security and environmental management.

#### AGRICULTURE/ AGRIBUSINESS

FACT: By 2050, the demand for food will surge 70%, in line with rapid population growth. With environmental changes hard to predict, we must turn to innovation in agriculture technology.

In Australia, The value of agricultural exports is expected to be a record at \$75 billion in 2022-23: the first time exports have risen above \$70 billion in nominal terms.

New innovations for example- Indoor Vertical Farming, Precision Agriculture, Bee Vectoring Technologies, livestock technologies, Farm automation Water Management Technology require new skills and people to drive the changes.

To build prosperous and sustainable rural industries, we need producers with skills and knowledge to make informed decisions about the future of their enterprises and industries.

For NSW career story:

https://www.australiantrainingawards.gov.au/finalist/tahli-gleeson **NSW SBAT Story:** 

https://www.skillsone.com.au/vidgallery/dairy-farming-at-hunter-river-high Pathways to University from SBAT program Cassandra's video

https://vimeo.com/717740656







# HEALTH AND HUMAN SERVICES, EARLY EDUCATION, SPORT AND RECREATION SECTOR

Includes Children's Education and Care, Health & Human Services, Aged & Disability Care and Support; and Sport & Recreation

#### **HEALTHCARE AND SOCIAL ASSISTANCE**

FACT: Health Care and Social Assistance is Australia's largest employing industry and, given the COVID-19 pandemic, has a critically important workforce. It covers health services like hospitals, General Practitioners, wellness and therapy, dental and ambulance services, as well as child care and aged care. Post-school education is commonly required in this industry with more than 80% of the workers having a post-school qualification.

Qualifications are often mandatory for employment and training opportunities exist in both the higher education and VET sectors.

Demand is expected to continue for this industry, given the COVID-19 pandemic and Australia's ageing population. Employment in Health Care and Social Assistance is projected to grow by 301,000 (or 15.8%) over the five years to November 2026.

**SPOTLIGHT: Aged Care and Disability workers** 

Aged and Disabled Carers provide general household assistance, emotional support, care and companionship for aged and disabled persons in their own homes.

Also known as: Personal Care Worker, or Personal Carer.

Formal qualifications are not essential to work as an Aged or Disabled Carer. Although some workers have a certificate III or IV in aged care, disability, mental health, community services or another related field.

Employment numbers in other relevant occupations within these sectors are also projected to increase 28% by 2026. People who undertake this work could continue to study and work in nursing, heath and welfare, community support plus move into supervision and management of staff and hubs.

For NSW career story

<u>Stella Cox: SBAT TRainee</u> Certificate III in Health Services Assistance:







Skills and thrills 2023 Student handout

### MINING AND AUTOMOTIVE

including mineral exploration and extraction operations, Automotive Retail, Service, manufacturing and Repair and emerging industries covering driverless automotive technologies.

Fact: Australia is the leading mining jurisdiction in the world. After exceeding \$300 billion in export revenue for the \( \mathbb{N}\)rst time in 2020-21, Australia's mining exports are now forecast to grow even further in 2021-22 and total \$379 billion.

This record will be supported by many of Australia's key mineral outputs including iron ore, coal, gold and copper as well as rising exports of battery minerals such as lithium and nickel.

#### FOR NSW CAREER STORY:

Althea Kruizinga Electrician Certificate III in Electrotechnology Electrician



### **ENERGY, GAS AND RENEWABLES**



Industries of electricity, gas, renewable energy and storage or the use of resources in the production of energy. Emerging industries include hydrogen

Jobs can be located at power or gas extraction plants and also hydro-electric, solar or wind generation facilities.

Renewable energy sector is an emerging industry sector. The rapid pace of the clean energy transition make this one of the most exciting industries to work in Australia's miners produce more than 45 minerals used in the manufacture of products ranging from smartphones, electric cars, space travel, solar panels, glass and concrete to golf clubs, wind turbines and medical implants.

Renewable energy is also driving demand for resources. Australia is fast becoming the supplier of

choice for a low carbon future, whether it be silver, silicon and copper for solar panels, lithium for battery storage and electric vehicles, or vanadium, cobalt and rare earths for wind turbines.

#### FOR NSW CAREER STORY:

Watch the SBAT program for Snowy River 2.0- renewables and clean energy





### PUBLIC SAFETY A

AND GOVERNMEN

Covering industries directly involved in public service (e.g., local government, Police, Fire, Defence, Corrections and Government.).

Employment in Public Administration and Safety is projected to grow by 59,200 (or 6.4%) over the five years to November 2026.

Police is the largest employing occupation in the Public Administration and Safety industry.

#### **Defense Industries and careers**

You'll find the ADF located across Australia and on vessels worldwide. Personnel may also be deployed overseas on combat, disaster relief, peacekeeping and aid provision operations.

Aviation to administration, Trade jobs through to support roles that are crucial to keep the defense forces operating.

#### Spotlight: Logistics, hospitality, and support careers

It takes a huge team of dedicated workers to take on Australia's largest logistical challenge, keeping the ADF running smoothly. These roles involve ordering, managing and distributing supplies and equipment; catering and entertaining; transport operation and even fire fighting.

ADF Careers hospitality, logistics and support website

#### **Spotlight: Trade Careers in Defence Forces**

Traditional Trades (mechanical, plumbing, carpentry etc), Aviation and Technology Trade career pathways. You can undertake your complete apprenticeship or trainees through ADF or join during or after you complete your qualifications

**ADF Trades website** 

#### For NSW career story:

Mellanie Sutton
Environmental Health Officer- Local Councils NSW



## BUILDING, CONSTRUCTION AND PROPERTY

Industries that provide property services, small or large scale construction services, traditional building as well as large scale civil infrastructure services.

#### **BUILDING AND CONSTRUCTION**

**FACT** 

The Australian construction industry generates nearly AUD 360 billion in revenue (9% of the country's Gross Domestic Product (GDP)) and has a projected annual growth rate of 2.4%. As of November 2021, the construction industry employed approximately 1,143,600 people.

What are the main issues facing the construction industry in Australia? The main issue is Labour scarcity -the single biggest issue faced by construction companies. As of October 2022, public infrastructure projects, including small capital projects, face a shortage of 214,000 skilled workers

The huge investment flowing in the industry is driving the market. Furthermore, the industry is being driven by technological innovation and demand for prefabricated buildings

#### FOR NSW CAREER STORY:

<u>Troy Harris:</u>
<u>Plumber</u>
Certificate III in Plumbing



## TRANSPORT AND LOGISTICS

Industries that provide transport and logistics sectors including the emerging industry sectors of space transport and omnichannel distribution.

Fact: Around 4.9% of workers have their main job in the Transport, logistics and Warehousing industry. Employment in the sector is projected to grow by 39,900 (or 6.1%) over the five years to November 2026

The COVID-19 pandemic led to an exponential increase in parcel movements, including e-commerce deliveries, straining Australia Post's pre-existing delivery model. The freight and logistics market has felt these impacts nationwide, particularly through the demand for the home delivery of groceries and medical supplies during the pandemic. Government investment in infrastructure development of road, rail, air, and water transport facilities is anticipated to drive the Australian logistics and warehousing industry's growth in coming years. The partnership of the Australian government with New South Wales, Victoria, Queensland, Western Australia, South Australia, Tasmania, Northern Territory, and the Australian Capital Territory is expected to assist the various land transport infrastructure projects.

Businesses in this industry are involved in transport passengers and freight by road, rail, water or air. This includes scenic and sightseeing Transport.

Businesses involved in goods warehousing and storage activities are also included.

#### FOR NSW CAREER STORY:

**Madison Lee Coelli** 

**Business Administration** 

Diploma of Logistics Management and Leadership and Management Certificate IV in Business Services - Business Administration



## ARTS, PERSONA TOURISM AND

Covering 'high street' human services such as hairdressing, floristry, travel, hospitality as well as the creative economy with fine art, ceramics, music, dance, theatre and screen and provide wholesale and retail services. Emerging industries include online sales. The Arts sector alone covers include graphic design, arts and craft products, film, audio and video production, performance art such as dance, music and live theatre

#### **ENTERTAINMENT INDUSTRY SPOTLIGHT**

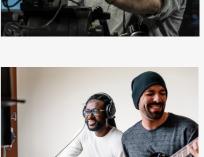
FACT: The Creative Industries market within the Entertainment sector is a broad and diverse field. It encompasses a wide range of activities, from film and television production to music, performance, Live theatre, publishing, and gaming. It also includes the development of new technologies and platforms, such as streaming services, virtual reality, and interactive media. The Creative Industries market is a major contributor to the global economy, providing employment and revenue for many countries.

Engaging in cultural and creative activities helps us develop a sense of belonging, forges social cohesion, stimulates curiosity and expands our ability to engage with different perspectives.



#### **Further insights and information:**

https://newapproach.org.au/wpcontent/uploads/2021/08/5-ANA-InsightReportFive-FullReport.pdf https://www.austrade.gov.au/international/buy/australianindustry-capabilities/creative-industries





#### **TOURISM AND HOSPITALITY SPOTLIGHT**

Fact: By 2027, there are forecast to be:

465.8 million domestic visitor nights (up 11% on 2019)

126.2 million domestic overnight trips (up 7% on 2019)

244.4 million domestic day trips (down 2% on 2019)

TRA forecast total visitor expenditure to surpass pre-pandemic levels this year and total \$227.7 billion by 2027. forecast visitor arrivals to move higher than pre-pandemic levels in 2025 and total 11.0 million by 2027.

Working in the hospitality and tourism sector has lots of advantages for people with the right attitude and abilities. There's a steady supply of jobs, and the work involves dealing with customers – both face-to-face and behind the scenes. There are lots of flexible pathways available to help you build a career and work towards higher-skilled jobs in the field, including positions such as hotel and restaurant managers, chefs and caterers, event planners and travel consultants.

#### **Further information**

Find out about the tasks, skills and aptitudes associated with entry-level jobs in Hospitality and Tourism on the <u>SkillsRoad</u> website.

For NSW career stories:

<u>Chelsea McInnes</u> <u>SBAT Trainee - Hospitality</u> Certificate II Hospitality

<u>Gabriella Adeline</u>

<u>Pastry Chef</u>

Certificate IV in Patisserie

Ethan Zammit

SBAT

Certificate IV Live production





## FINANCE, TECHNOLO BUSINESS

Covering professional services including marketing, accounting human resources, digital literacy, information and communication technologies.

Emerging industries include cyber security, financial technologies, artificial intelligence and the internet of things.

#### STEM AND DIGITAL SPOTLIGHT

Fact: STEM skills (science, technology, engineering, and maths) have helped to facilitate the emergence of more complex, innovative work in many industries. Over the 20 year period to February 2020, before the impact of COVID-19, employment in STEM occupations grew by 85%, or more than twice the rate of non-STEM occupations (40.2%). Some of these changes

have been driven by automation, while greater use of technology has changed many jobs and encouraged growth in higher skilled jobs.

Employment in Financial and Insurance Services is projected to grow by 33,200 (or 6.3%) over the five years to November 2026.

#### For NSW career story:

#### **Megan Cox**

Assurance Associate: Certificate IV in Information Technology - ICT40120 https://www.yourcareer.gov.au/learn-and-train/australian-vet-alumni/alumni/megan-cox-0

#### For further information

https://careerswithstem.com.au/category/study-pathways/vet-study-apprenticeships/#gsc.tab=0





## References

#### **GENERAL**

https://careers.nsw.gov.au/find-your-career

https://education.nsw.gov.au/skills-nsw/apprentices-and-trainees

https://education.nsw.gov.au/about-us/educational-data/cese/publications/research-

reports/pathways-for-the-future-pilot-project-summary-report#Summary1

https://labourmarketinsights.gov.au/our-research/employment-projections/

https://www.nationalskillscommission.gov.au/sites/default/-

files/2022-02/State%20of%20Australia%27s%20Skills%20Overview.pdf

https://australiainstitute.org.au/report/the-future-of-work-for-australian-graduates/

https://labourmarketinsights.gov.au/our-research/employment-projections/

#### **AGRICULTURE**

https://masschallenge.org/articles/agriculture-innovation/

https://www.agrifutures.com.au/about/

https://www.agriculture.gov.au/abares/research-topics/agricultural-outlook/agriculture-

overview

#### CONSTRUCTION

https://www.adecco.com.au/news/future-proofing-your-hiring-strategy-navigating-the-challenges-of-australia-s-construction-

industry/59716/#:~:text=Labour%20scarcity%20is%20the%20single,to%20a%20peak%20of %20442%2C000.

https://www.researchandmarkets.com/reports/5530215/australia-construction-market-growth-trends#src-pos-2

#### **PUBLIC ADMININSTRATION**

https://www.yourcareer.gov.au/industries/o/public-administration-and-safety DEFENCE INDUSTRIES

https://www.defencejobs.gov.au/jobs/logistics-hospitality-and-support?tab=category-about&page=1&perPage=21&query=

https://www.defencejobs.gov.au/jobs/trades?tab=category-

about&page=1&perPage=21&query=

https://www.yourcareer.gov.au/industries/o/public-administration-and-safety

#### HEALTH AND HUMAN SERVICES, EARLY EDUCATION, SPORT AND RECREATION SECTOR

https://myfuture.edu.au/occupations/details/4231--aged-and-disabled-carers#overview

https://www.aapathways.com.au/industry-specific/aged-care

https://myfuture.edu.au/occupations/details/4211--child-carers#overview

https://labourmarketinsights.gov.au/industries/industry-details?industryCode=Q

#### **MANUFACTURING**

https://labourmarketinsights.gov.au/industries/industry-details?industryCode=C

https://invest.nsw.gov.au/sector-opportunitiesmanufacturing

https://manufacturingalliance.org.au/industries/

#### MIINING AND AUTOMOTIVE

#### https://ausmasa.org.au/news

https://www.minerals.org.au/make-your-career-mining-careers-guide

https://assets.cleanenergycouncil.org.au/documents/re-

#### FINANCE, TECHNOLOGY AND BUSINESS

#### **DIGITAL AND STEM**

https://www.nationalskillscommission.gov.au/sites/default/-

files/2022-

02/Australia%E2%80%99s%20shift%20to%20a%20higher%20skilled%2C%20service-based%20economy.pdf

#### **RENEWABLES**

https://www.skillsone.com.au/vidgallery/vet-programs-for-secondary-students-the-snowy-2-0-experience/

#### TRANSPORT, LOGISTICS AND WAREHOUSING

https://www.globenewswire.com/news-re-

lease/2020/12/07/2140294/0/en/AUSTRALIA-FREIGHT-AND-LOGISTICS-MARKET-

GROWTH-TRENDS-AND-FORECAST-2020-

https://www.industryskillsaustralia.org.au/our-industries

https://www.yourcareer.gov.au/learn-and-train/australian-vet-alumni/alumni/madison-lee-coelli

#### ARTS, PERSONAL SERVICES, RETAIL, TOURISM AND HOSPITALITY

https://www.researchandmarkets.com/tag/creative-industries?ac=true

https://newapproach.org.au/

https://www.austrade.gov.au/international/buy/australian-industry-

capabilities/creative-industries

#### TOURISM HOSPITALITY AND EVENTS

https://www.tra.gov.au/economic-analysis/tourism-forecasts-australia/tourism-

forecasts-for-australia-2022-2027

https://www.dewr.gov.au/hospitality-and-tourism

**RETAIL** 

https://www.nationalskillscommission.gov.au/reports/australian-jobs-2021/jobs-industry/retail-trade

#### WAGES AND HECS DEBT STATISTICS

https://gradaustralia.com.au/on-the-job/what-is-the-average-graduate-salary-in-australia

https://au.talent.com/salary?job=apprentice#:~:tex-

t=How%20much%20does%20a%20Apprentice%20make%20in%20Australia%3F&text =The%20average%20apprentice%

20salary%20in,up%20to%20%2487%2C987%20per%20year.

https://www.google.com/search?q=average+hecs+debt+austra-