

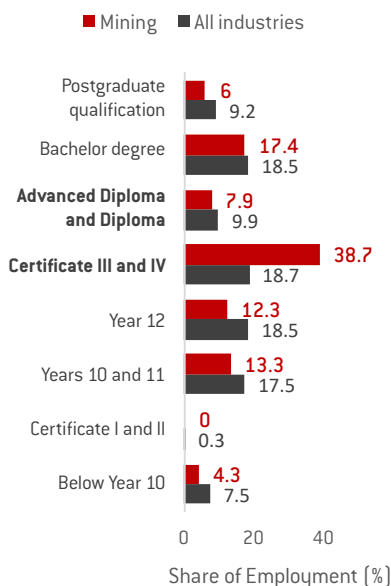
Skills to support the WA mining industry

North Metropolitan TAFE services the WA mining industry, which has created \$88 billion in total sales value, from approximately 45% of Australia's 400 mines.¹

Our services

As such, the mining sector holds a significant value to the state in terms of employment and economic opportunity. Given the mining industry's significance to the State's economy, North Metropolitan TAFE works with industry to ensure the provision of a skilled labour force and with enterprises to assist with workforce development.

In 2017, 46% of the mining sector workforce was vocationally trained. VET qualifications are not just supplying entry level workers and apprentices into the mining sector, but VET skills sets and advanced qualifications are providing the transformative knowledge and skills for promotion; implementation of new technologies; cross-skilling of experienced workers and the development of leadership and management skills to underpin career progression.



Source: 2017 Australian Bureau of Statistics

¹ www.dmp.wa.gov.au/About-Us-Careers/Latest-Statistics-Release-4081.aspx

Our expertise

Industry 4.0 and global megatrends are transforming our workplaces. We work with the Department of Training and Workforce Development, Industry Training Councils and other peak bodies to identify the evolving new technologies and skills needed to ensure that our curriculum and training strategies keep pace with innovations in the WA mining sector. Our services include:

- Training needs analysis and workforce development planning
- Nationally recognised qualifications, units or skills sets
- Recognition of Prior Learning (RPL) and verification of competencies.
- Training delivered in the workplace, onsite or at one of our campuses.

Our facilities

Perth | CUT Mine

A Our CUT Mine is a unique simulated underground mine which has been used by students in Surveying, Geological Assistant Skill Sets, Mining exploration to gain exposure to a real underground mine environment, prior to site mobilisation. The CUT Mine has also been utilised by industry for Mine Induction Training and Mines Emergency Rescue competition.

East Perth | Green Skills Training Centre

B This campus is home to a \$17m Green Skills Training Centre which promotes sustainable practices and skills in engineering and construction, building and design, and specialised trades with a focus on renewable energy, bio-technology, water operations and environmental management.

Mining Training Centre

C This centre uses industry standard equipment and facilities to provide specialised training in mining exploration, mineral processing, geology, and gold assaying.

The centre has a core yard where up and coming Field Assistants or Pit Technicians can interpret the rock characteristics of drill core.

It also has a Fire Assay Laboratory where students can learn how to analyse gold or any of the base metals from a mineral sample.

For those interested in careers in exploration or minerals drilling, there is a 4-wheel drive training and maintenance facility.

Midland | Metals and Engineering

D This campus features a specialist metals and engineering centre, built to ensure a focus on new technologies and the integration of these technologies across traditional trade and industry sectors. Students learn high speed, high precision operations in a safe environment on a range of various programmable automated equipment. They're exposed to up-to-date computer controlled machining technology and they'll gain skills in industrial robotics and component design using current industry standard computer-aided design. We are also an industry leader in delivery of fluid power training.

What our clients say

ACM *"We have been working with NMTAFE for a number of years to support our underground shot-firing program and use their Perth simulated mine to complete out site inductions; ensuring trainees were job ready prior to mobilisation to site".* **Safety Training Coordinator | Tim Bowes.**

ROY HILL *"We appreciate the way North Metropolitan TAFE has built leadership and innovation development programs into our traineeships - key skills required for the future of mining."* **Spokesperson | Roy Hill.**



Job roles	Qualification/s
Exploration phase	
Geological Assistant Pit/Underground Technician Field Assistant	RII30520 Certificate III in Mining Exploration
Construction phase	
Junior Technical Officer (Surveying and Spatial Information Services) Surveying Assistant Spatial Information Services Assistant	CPP30216 Certificate III in Surveying and Spatial Information Services
Technical Officer (Spatial Information Services) Survey Assistant	CPP40216 Certificate IV in Surveying
Senior Technical Officer Mine/Engineering Surveyor	CPP50116 Diploma of Surveying
Surveying or Spatial Science Technician GIS Technician Survey Assistant Surveyor (Mine or Engineering or Construction)	CPP60116 Advanced Diploma of Surveying
Civil Engineering Draftsperson Civil Engineering Technician Civil Engineering Design Draftsperson Road Design Draftsperson Structural Engineering Drafting Officer	52725WA Diploma of Civil and Structural Engineering
Civil Engineering Draftsperson Civil Engineering Technician Senior Draftsperson Design Draftsperson Civil Engineering Assistant Engineering Associate	52724WA Advanced Diploma of Civil and Structural Engineering
Boilermaker Welder Fabricator Metal Template Maker Structural Steel Trades Worker Pressure Welder Welder (First Class)	MEM30305-WT77 Certificate III in Engineering - Fabrication Trade (Heavy/Welding YH)
Sheetmetal Trades Worker Metal Spinner Sheetmetal Patternmaker Light Metal Fabrication Tradesperson 1st Class Sheet Metal Worker	Advanced Welding – Manual Metal Arc Welding Skill Set Advanced Welding – Gas Tungsten Arc Welding Skill Set MEM30305-WT78 Certificate III in Engineering - Fabrication Trade (Light YC)
Electrical Fitter Electrical Contractor Switchgear Tradesperson	UEE33011 Certificate III in Electrical Fitting
Electrician Electrical Fitter Lift Electrician	UEE30811 Certificate III in Electrotechnology Electrician
Electronic Instrument Trades Workers (General) Electronic Instrument Trades Workers (Special Class) Instrument and Control Service Person Industrial Measurement and Control Technician Electronic Engineering Technician Electrical Instrument Technician	UEE40411 Certificate IV in Electrical - Instrumentation
Carpenter and Joiner (domestic or commercial) Fixing Carpenter Formwork Carpenter Joinery Machinist Joinery Patternmaker Joinery Setter-out	CPC32011 Certificate III in Carpentry and Joinery
Plumber Gasfitter Plumber and Drainer Gasfitting Contractor	CPC32413 Certificate III in Plumbing
Roof Plumber	CPC32612 Certificate III in Roof Plumbing
Extraction and processing phases	
Processing Plant Attendant (Extractive Industries) Processing Technician	RII20515 Certificate II in Resource Processing
Senior Process/Production Operator (Mineral Processing) Mineral Processing Technician Remote Control Room Operator	RII30415 Certificate III in Resource Processing
Miner Drilling/Mining Plant Operator Production Operator Shot Firer	RII20215 Certificate II in Surface Extraction Operations RII30115 Certificate III in Surface Extraction Operations
Production Manager (Mining) Mine Manager Mine Superintendent Quarry Manager Coal Mine Manager Quarry Operations Area Manager Quarry Operations Manager Mine Manager (Metalliferous Mining) Quarry Operations Technical Manager	RII50115 Diploma of Surface Operations Management
Chemistry Technician Assistant Earth Science Technician Assistant Life Science Technician Assistant Laboratory Assistant School Laboratory Technician Assistant Laboratory Technician Instrument Operator Sampler and Tester Production Personnel Field Assistant Sample Courier	MSL30118 Certificate III in Laboratory Skills MSL40118 Certificate IV in Laboratory Techniques
Chemistry Technician Earth Science Technician Life Science Technician School Laboratory Technician Technical Laboratory Officer Laboratory Technician Instrument Operator	MSL50118 Diploma of Laboratory Technology

Job roles	Qualification/s
Mine maintenance	
Fitter Fitter-Machinist Metal Machinist Fitter-Welder Fitter and Turner	MEM30205-WT83 Certificate III in Engineering - Mechanical Trade (Fitter and Machinist ZB)
Mechanical Engineering Tradesperson Metal Fitter Machinist Metal Machinist Mechanical Fitter Metal Plater Plant Mechanic	MEM30205-WT86 Certificate III in Engineering - Mechanical Trade (Mechanical Fitter ZA)
Motor Mechanic (General) Automotive Light Mechanic Vehicle Mechanic Brake Mechanic Roadside Mechanic	AUR30616 Certificate III in Light Vehicle Mechanical Technology
Automotive Electrical Technician	AUR30316 Certificate III in Automotive Electrical Technology
Robotics Technician	22519VIC Certificate IV in Integrated Technologies (Robotics Control Systems)
Support roles	
Project Officer Project Administrator Project Records Officer Project Management Officer Project Coordinator	BSB41515 Certificate IV in Project Management Practice
Contract, Program and Project Administrators Project Leader, Project Team Leader Project Contract Manager Project Manager (industry specific) Project Coordinator	BSB51415 Diploma of Project Management
Keyboard Operator Word Processing Officer Data Entry Operator Office Admin Office Assistant Customer Service Advisor Customer Service Officer	BSB30115 Certificate III in Business
General Clerk Clerical Officer Office Administrator	BSB40215 Certificate IV in Business
Accounts Officer Cost Clerk Accounts Clerk Payroll Officer	FNS30317 Certificate III in Accounts Administration
Accounts Clerk Accounts Payable Clerk Accounts Officer Accounts Receivable Clerk Audit Clerk Payroll Clerk Payroll Officer Bookkeeper	FNS40217 Certificate IV in Accounting and Bookkeeping
Assistant Accountant Accounting Manager Bookkeeper Financial Administration Officer Senior Payroll Officer	FNS50217 Diploma of Accounting
Junior Office Manager Bookkeeper Assistant Accountant Senior Financial Clerk Accounting Manager	FNS60217 Advanced Diploma of Accounting
Human Resources Assistant Employment Officer Personnel Records Clerk Human Resources Administrator Human Resources Assistant Human Resources Officer Human Resources Coordinator Payroll Officer	BSB40420 Certificate IV in Human Resource Management
Direct Marketing Officer Marketing Officer Media Planner Online Marketing Administrator Marketing Coordinator Media Assistant Market Research Assistant Promotions Assistant Manager	BSB42415 Certificate IV in Marketing and Communication
Legal Receptionist Receptionist Front Desk Legal Secretary Law Clerk Legal Clerk Mail Room Clerk Office Junior Office Clerk Support Staff (to a legal practitioner)	BSB31015 Certificate III in Business Administration (Legal)
Law Clerk, Legal Clerk Legal Secretary, Junior Legal Secretary Receptionist Front Desk Support Staff (to a legal practitioner)	BSB42215 Certificate IV in Legal Services
Business Development Manager Business Manager Manager Production, Manager Operations Manager Public Sector Corporate Services Manager	BSB51918 Diploma of Leadership and Management

Job roles	Qualification/s
Support roles (cont.)	
Building, Registered Builder Project Builder Building and Construction Manager Estimating and Office Administrator WHS Building & Construction management operations Building Consultant (Building & Construction) Project Manager (Building & Construction) Building & Construction Supervisor Building Site Manager Facilities & Construction maintenance officer	CPC50210-WA79 Diploma of Building and Construction (Building) [Builder's Registration]
Environmental Officer Environmental Compliance Officer (Local Government) Life Science Technician Environmental Technician Natural Resource Management Officer	MSS50218 Diploma of Environmental Monitoring and Technology ACH5116 - Diploma of Conservation and Land Management
Enrolled Nurse	HLT54115 Diploma of Nursing
Mechanical Engineering Draftperson Mechanical Engineering Technician Junior Drafter Junior Project Supervisor Engineering Associate	MEM50212-WB84 Diploma of Engineering - Technical (Mechanical)
Cook Commercial Cook	SIT30816 Certificate III in Commercial Cookery
Chef Chef de Partie Supervisor Team Leader Cook or Chef	SIT40516 Certificate IV in Commercial Cookery
Computer Technical Support Security Security Customer Support Information Security Security Systems Help Desk Support Website and Network Security Officer Network Specialist	22334VIC Certificate IV in Cyber Security ICT40120 Certificate IV in Information Technology (Networking) ICT50120 Diploma of Information Technology (Advanced Networking) 22445VIC Advanced Diploma of Cyber Security
VR Developer	ICT50220 Diploma of Information Technology (Advanced Programming) CUA60615 Advanced Diploma of Screen and Media (Animation & Visualisation)



We look forward to partnering with industry to deliver innovative, cost-effective training solutions for your business.