
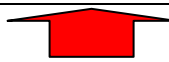

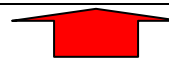
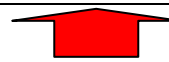
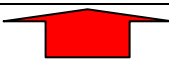


**Occupations in the Resources and Infrastructure Sector**  
(Civil Construction, Drilling, Extractive (Quarry), Mining and Oil & Gas Exploration)

IMAGES COVERING ALL LEVELS	Semi Skilled	Skilled Operator	Trades	Technical/Supervisor	Engineers & Scientists	Other occupations
	<p>Asphalt worker Concrete mixer helper Construction labourer Driller - Assistant, Offsider, Support Operator (*) Drill Fitter Dogman/Dogger (*) Field Assistant Floorman On/Off shore Grounds Keeper Jug Hustler Labourer Maintenance worker Pit Technician Quarry Plant Operator Railway track worker Road construction workers Roughneck Roustabout/Derrickman Sand spreader Sealing operator Serviceman Shot Firers Assistant Slurry operator Spotter Storeperson Surveying Assistant Trades Assistant Utility worker Water Truck Driver Weigh Bridge Operator</p>	<p>Assistant Sampler Control Room Operator Derrickman On/Off shore Driller – Blasthole, Civil Construction, Directional Driller, Mine Exploration, Oil and Gas &amp; Waterwell (*) Drill Assistant Mobile, Fixed &amp; Processing Plant Operators- Backhoe, Bulldozer, Crane, Driver, Grader, Excavator, Haul Truck, Loader, Scraper &amp; Shovel. Field Hydrologist Field Operator Foreman Laboratory Assistant Leading Hand (*) Mineral Process Operator Open Cut Mining Plant Operator Power Generation Plant Operator Process / Pre Plant Operator Production Specialist Miner – Underground &amp; Open Cut Operators Underground &amp; Opencut - Bogger, Jumbo, Longwall / Continuous Miner, Operator Quarry Operator – Leading Hand Quarry Worksite Trainer/Assessor Rigger (*) Roustabout (refer Drillers Assistant) Scaffolder Survey Field Assistant Shot Firer Train Driver (*) Tool pusher</p>	<p>Auto Electrician Boilermaker Bridge constructor Dogman/Dogger(*) Driller – Blasthole, Civil Construction, Directional Driller, Mine Exploration, Oil and Gas &amp; Waterwell (*) Electrician Fitters - Diesel, Fixed Plant, Electrical, Instrumentation &amp; Mechanical Foundation constructor Instrument/Electrical Technician Machinists Maintenance / Mechanical Fitter / Specialist Mechanic – Automotive, Diesel, Heavy Vehicle &amp; Turbine Metal Machinist Mobile Plant operators (*) Mobile crane operator (*) Road constructor (*) Road Marker Rigger (*) Pavement Layer Pipe layer Timber bridge constructor Toolmaker Train Driver (*) Tunnel constructor Ventilation Officer Welder</p>	<p>CAD Draftsperson Civil engineering technician/ technologist Construction estimator Construction engineer technologists Control Room Operator Data / Information Officer Diver Drilling/blasting foreman/supervisor Environmental Officer Estimator Excavation Contractor Field Superintendent/Operator Field Operator Installation Manager Laboratory -Technician/Worker Logistics Manager Maintenance Planner/Technician Mine Deputy (Qld), Planner &amp; Surveyor Mud Logger Oil and Gas Toolpusher Open Cut Examiner (Qld) Plant Foreman (Fixed &amp; Mobile) Production - Foreman, Scheduler, Technician Quarry Foreman, Supervisor &amp; Technician Railway track maintenance foreman Road maintenance foreman Senior Driller Shift Boss Soil testing technician Surveying Technologist Technicians – Electrical engineering, Electronics/ICT, Geoscience, GIS, Heavy equipment, Instrument, Metallurgical &amp; Ventilation Technical Officer Tenement Advisor</p>	<p><b>Engineers &amp; Scientists</b></p> <ul style="list-style-type: none"> <li>Biologist</li> <li>Biotechnologist</li> <li>Chemical</li> <li>Civil</li> <li>Corrosion</li> <li>Construction</li> <li>Completions</li> <li>Drilling</li> <li>Electrical</li> <li>Electronics</li> <li>Environmental</li> <li>Exploration Geologists</li> <li>Fluids</li> <li>Geological/Geotechnical</li> <li>Geophysicist</li> <li>Geologists – Exploration, Hydro, Mine, Resources</li> <li>Geoscientists</li> <li>Industrial Chemist</li> <li>Instrument</li> <li>Marine Scientist</li> <li>Materials</li> <li>Mechanical</li> <li>Metallurgist</li> <li>Mining</li> <li>Mud</li> <li>Petroleum</li> <li>Petrophysicist</li> <li>Pipeline</li> <li>Process</li> <li>Production</li> <li>Project</li> <li>Quarry</li> <li>Reservoir</li> <li>Software</li> <li>Structural</li> <li>Subsea</li> <li>Surveyor</li> </ul> <p>Hydrographic Surveyor Managers – Exploration, Mine, Operations/Production, Plant, Project, Reservoir, Safety &amp; Health, Site &amp; Tenement Offshore Installation Manager (OIM) Quarry Manager – Area, Operations, Senior &amp; Technical</p>	<p>Aboriginal Heritage Advisor Aboriginal Liaison Advisor Accountants &amp; Accounts Clerks Anthropologist Archaeologist Art Conservationist Business - Administrators/Managers Community Relations Officer Computer Engineer Corporate Affairs Graphic Artist Heritage Advisor Horticulturist Hospitality workers (Caterer/Chef) Human Resources Advisor/ Manager Indigenous Com. Rel. Advisor Industrial Relations Advisor Information Technologist IT - Computer Technician Web Development Lawyer Librarian Logistics Specialist Marketing Manager Media Liaison Advisor Nurse Occupational Therapist Office - Administration/Manager Pilots (Helicopter/ Marine/Airplane) Public Relations Advisor Purchasing Advisor Safety &amp; Health Adviser/Manager Training Advisor/Manager Transport Coordinators Translator/Interpreter</p>
	 May have entry level VET/TAFE qualification or can demonstrate an aptitude for the work.	 On the job training and experience leading to VET/TAFE competencies and or qualification	 Apprenticeship or Traineeship including VET/TAFE qualification (may have been semi-skilled or skilled operator).	 VET/TAFE qualification or on the job training and extensive experience.	 University degree	 Various entry points including - on the job experience, VET/TAFE and University qualifications

- Notes:**
- All entrants need to meet entry requirements eg. health, drug, alcohol
  - (\*)These occupations can be at Certificate of Competency, Traineeship or Apprenticeship level depending on State and Territory education and training requirements.
  - Ongoing development and utilisation of new technology by the sector continues to impacting on existing and emerging occupations.
  - Occupation categories: Orange – Occupations required across all sectors, Black – Mining, Red – Oil & Gas Exploration, Blue – Drilling, Purple – Civil Construction, Green – Extractive (Quarry), Aqua – other occupations

Published with permission by APPEA

Organisations consulted in the development of document

AiGroup	ADIA	APPEA	CCF	CMEWA	CMEIG	CMPPA	EIIS	IQA	MCA	Mining Industry Skills Centre	NSW Minerals Council	QRC	SACOME	SkillsDMC	CAA & DEEWR
---------	------	-------	-----	-------	-------	-------	------	-----	-----	-------------------------------	----------------------	-----	--------	-----------	-------------