



Mining & Materials

Learn how to map your career and find path to success!



Why Mining?

Why consider a career in mining? For starters, jobs in mining, whether you are manager, an engineer, geologist, or even an accountant, pay exceptionally well. The mining industry is known for taking care of its employees.

Jobs in mining really allow you to grow into the industry with the skills-sets of a recent graduate or just someone looking to branch into another area of the mining industry. Be it a technical field, engineering, or exploration, the opportunities for advancement are plentiful.

Many mining jobs offer training in the field, internships for graduates, and mentoring with the opportunity to grow from entry level into senior level and/or management positions, setting you on a fulfilling career path

A career in mining has many benefits and this industry is a one of the major players in Nevada's economy and leader on the world stage.

How to learn more:

- Explore this and other industries at www.nvcis.intocareer.org
- Find out if a job will pay your bills using the Reality Check at www.nvcis.intocareers.org
- Search for all the training programs in Nevada, schools and other information regarding career or education options in Nevada by exploring <http://www.nevadayouth.org/>

How do I get started in Mining & Materials?

» Keep your grades up in high school. Take math, science, computer and English classes.

» Explore careers you might be interested in at Connect with NCIS at www.nvcis.intocareers.org

» Explore careers and employment possibilities at www.NevadaYouth.org.

» Do you know anyone who works in mining? Interview him/her and ask if you can visit his/her workplace.

» Make a plan based on your interests. How much training do different jobs require? Where can you find the training you need? How will you pay for it? What steps can you take to get you closer to your goal?

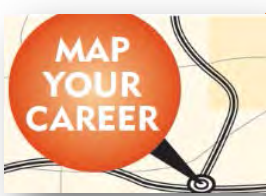
Career Paths in Mining & Materials

Education Level	Hourly Wage Ranges* (25 th – 75 th percentile)	Mining /Manufacturing Technologies	Mining /Transportation Technologies	Mining Environmental & Health Technologies	Mining Computer and Business Services
HIGH LEVEL	Mining Engineer \$33.99 - \$51.76	Mining Engineer, Electrical Engineer, Material Engineers, Civil Engineers	Mechanical Engineers, Transportation Managers	Geologists, Environmental Engineers, Emergency Planning Engineer, Mining Safety Engineers	Computer Engineers, Software Engineers, Geostatistician, Data Modeler,
MID LEVEL	Heavy Equipment Mechanics \$25.01 - \$33.34	Fixed Maintenance Mechanics, Process Operators, Electrician/Instrumentation Technicians	Diesel Mechanics, Truck Mechanics, Heavy Equipment Mechanics	Environmental Technician, Safety & Healthy Technician, Safety Program Specialist	Communication System Technicians, IT Technicians, Statistical Assistants, Research Specialist
ENTRY LEVEL	Mining Machine Operator \$24.07 – \$31.74	UG Miners, Welders, Millwright, Maintenance Planner, Mining Machine Operator	Motor Coach Operator Trainee, Heavy Equipment Operator, Material Moving Machine Operators	Lab Technicians, Emergency Dispatchers, Rescue Worker	Surveyor, Research Assistant, Material Handlers

*For info on wage ranges visit – Nevada Workforce Informer at <https://nvcis.intocareers.org>.

Note: the colors for career path aligns with the CTE classes available in the school.

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Classes to take for different Programs of Study in Mining & Materials:

High School	9 th Grade	10 th Grade	11 th Grade	12 th Grade	Post Secondary
» Base course schedule that students will take in high school:	English I	English II	English III	English IV	College of Southern Nevada Great Basin College Nevada State College Truckee Meadows Community College University of Nevada, Las Vegas University of Nevada, Reno Western Nevada College
	Algebra I	Geometry	Algebra II	Senior Level Math Course	
	Biology	Chemistry or Geoscience	Junior Level Science Course	Elective	
	Health / Computer Literacy	World History	US History	US Government	
	Physical Education	Physical Education	Foreign Language or Elective	Foreign Language or Elective	

» Recommended classes for selected career paths in Mining & Materials:

Industry Recognized Certifications:

Electronic Technology:	Electronic Technology I	Electronic Technology II	Electronic Technology III	Electronic Technology Adv. Studies	Career Safe (OSHA), J-STD-001 (IPC Cert.), Student Electronic Tech. (ETA)
Mechanical Technology:	Mechanical Technology I	Mechanical Technology II	Mechanical Technology III	Mechanical Tech. Adv. Studies	Career Safe (OSHA), Core Curriculum (NCCER)
Metalworking:	Metalworking I	Metalworking II	Metalworking III	Metalworking Adv. Studies	Career Safe (OSHA)
Welding Technology:	Welding Technology I	Welding Technology II	Welding Technology III	Welding Technology Adv. Studies	Career Safe (OSHA)
Diesel Equipment Technology:	Diesel Technology I	Diesel Technology II	Diesel Technology III	Diesel Technology Advanced Studies	Medium/Heavy Truck (T1-T8) (ASE), Career Safe (OSHA)
AgMET Power Systems:	AgMET I	AgMET II	Ag MET Power Systems	AgMET Eng. Tech. Adv. Studies	Career Safe (OSHA), AWS Certified Welder (American Welding Soc.)
AgMET Equipment Fabrication Systems:	AgMET I	AgMET II	Ag MET Equipment Fabrication Systems	AgMET Adv. Studies	Career Safe (OSHA), AWS Certified Welder (American Welding Soc.)
Environmental Management:	Environmental Management I	Environmental Management II	Environmental Management III	Environmental Management Adv. studies	
Emergency Medical Service:	Elective	Health Science I	Health Science II or EMS (Emergency Medical Services)	Emergency Medical Technician	CPR, First Aid (American Heart Association), Emergency Medical Tech. (National Registry EMT)
Computer Science:	Computer Science I	Computer Science II	Computer Science III	Computer Science Adv. Studies	
Principles of Business & Marketing	Principles of Business and Marketing	Marketing I	Marketing II	Marketing Advanced Studies	

This program of study is based upon the requirements needed for an Advanced Diploma. Academic course names may vary among school districts. For detail information please visit: <http://ctae.nv.gov/>

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