

# CAREER GUIDE & SCHOOL PLANNER



**TYCOP**

TECHNICAL YOUTH CAREER  
OUTREACH PROJECT

[firstnationcareers.com](http://firstnationcareers.com)



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# What is TYCOP?

The Technical Youth Career Outreach Project (TYCOP) empowers and encourages First Nations youth to study and pursue careers in science, technology, engineering and math (STEM).

By showcasing powerful First Nations role models who are currently studying or working in these fields, we hope to inspire youth to choose a career in a technical industry such as architecture, engineering, environment and solid waste, mining, science, trades or water and wastewater.

## Building capacity

By choosing a career in the STEM field, you will help to create future capacity in areas that help First Nations achieve technical self-reliance.

## Why should you choose a technical career?

- Better salary
- High demand for technical careers
- Give back to your community
- Significantly better health outcomes
- Rewarding experience

This project is coordinated by the Ontario First Nations Technical Services Corporation (OFNTSC) and is made possible by our generous funders, Indigenous Services Canada.



# About OFNTSC



Established in 1995, the Ontario First Nations Technical Services Corporation (OFNTSC) was created to provide expert technical advisory services to the First Nations of Ontario.

OFNTSC also creates future capacity by encouraging youth to pursue careers in science and technology and offers scholarships to help them with their educational pursuits.

We envision a future where First Nations have the capacity to deliver self-reliant technical services for future generations.

The Ontario First Nations Technical Services Corporation will influence impactful and measurable change, positioning and supporting First Nations to meet the contemporary and future challenges associated with their paths to self-reliance and self-sufficiency.

We serve all 133 First Nations in Ontario, which includes 16 Tribal Councils, 6 Large First Nations and 19 Unaffiliated First Nations.





## CAREER HIGHLIGHT

# Engineering

**ABOUT:** Engineering combines math and science in real world applications. It is concerned with the design and building of engines, machines and other structures that you use in your every day life.

### SKILLS & INTERESTS:

- Design
- Planning
- Art
- Math
- Computer literacy
- Problem solving

### SALARY RANGE:

\$37,440 - \$180,000

### CAREER OPPORTUNITIES:

- Infrastructure Specialist
- Housing Inspector
- Junior Architect
- Interior Design
- Construction
- Urban Planning
- Education

### HELPFUL HIGH SCHOOL

#### COURSES:

- Math
- Science
- Engineering

### COLLEGE/UNIVERSITY

#### PROGRAMS:

- Bachelor of Engineering
- Bachelor of Technology
- Civil Engineering
- Engineering Physics

**“You have a community that is really proud of you [...] they are rooting for your success.”**

#### COMMUNITY:

Wiikwemkoong Unceded Territory

#### SCHOOL:

McMaster University

#### PROGRAM:

Bachelor of Technology; Civil Engineering Infrastructure with a certificate in Management

## ENGINEERING ROLE MODEL: SKYLAR MANITOWABI

**BIO:** As a young man from Wiikwemkoong Unceded Territory, Skylar strongly believes that pursuing a technical career will give him the tools and experience he needs to be successful.

After graduating from Algonquin College with an Advanced Diploma in Civil Engineering Technology, Skylar decided to enrol in the Bachelor of Technology - Civil Engineering Infrastructure Technology program at McMaster University. As a result, he has a lot of advice for other youth wishing to take a similar path in school.

“Students that are considering post-secondary schooling should not feel any pressure to have a quick decision about what they want to do for the rest of their lives,” said Skylar. “It can be scary to think that but try to base your decision on your own interests/skills/what you are good at and try to find a program that best suits you!”

Skylar values education as a strong foundation to build upon and having a hands-on job experience is important to him. “Seeing the efforts and labour of your work has such a positive impact on you,” he said. “That sense of pride in your work will only push you farther in your career.”

In the future, Skylar hopes to be an inspiration to First Nation youth both within and outside of his home community. “I hope that my successes in education and a career in STEM will motivate youth to pursue a similar path.” Skylar would like to bring what he learned back to his community so he can “integrate new solutions with traditional teachings and most importantly, teach our communities.”

Skylar is a recipient of OFNTSC’s 2019 Robert Olivier Memorial Award.



## CAREER HIGHLIGHT

# Environment and Solid Waste

The field of Environment and Solid Waste covers a variety of programs. The main goal is to reduce human impact on the environment. Careers in this field range from sampling to assist in the aid of conservation of natural resources, to innovating new ways to reduce waste. It's all about protecting agriculture, wildlife, fisheries, forests, parks and the earth itself.

### SKILLS & INTERESTS:

- Risk Assessment
- Impact Studies
- Problem Solving
- Nature
- Adventure
- Health of communities
- Science

### SALARY RANGE:

\$23,069 - \$74,640  
(\$43,906 average)

### CAREER OPPORTUNITIES:

- Environmental Monitoring Technician
- Environmental Enforcement Officer
- Sustainability Specialist
- Environmental Policy Analyst
- Waste Program Manager
- Solid Waste Engineer

### HELPFUL HIGH SCHOOL COURSES:

Math, Science, Horticulture

### COLLEGE/UNIVERSITY PROGRAMS:

- Environmental Technology
- Environmental Engineering
- Forestry Technician
- Fish and Wildlife Conservation Technician

“Don’t give up.  
Don’t lose focus.”

### COMMUNITY:

Wiikwemkoong Unceded Territory

### OCCUPATION:

Regional Solid Waste Specialist

### EMPLOYER:

Ontario First Nations Technical Services Corporation

### SCHOOL:

Sir Sandford Fleming College

### PROGRAM:

Environmental Technology,  
Advanced Diploma

## ENVIRONMENT AND SOLID WASTE ROLE MODEL HEIDI MANITOWABI

**BIO:** Through her travels as a youth, Heidi learned about the negative impacts that North American lifestyles have on Mother Earth. This was the driving force behind her decision to enter the environmental field. “It took me a little while to connect the dots between being an Anishinaabe-Kwe and my feelings of responsibility towards being a steward of Shkagamik-Kwe (Mother Earth).”

Heidi has completed an advanced diploma in Environmental Technology from Sir Sandford Fleming College as well as Indigenous Environmental Science from Trent University. This career path has allowed her to achieve employment as Waste Management Coordinator at Waabnoong Bemjiwang Association of First Nations.

When it comes to being a role model, Heidi hopes to inspire other youth in her community and beyond!

“I love connecting with our future leaders; letting them know that there are many opportunities in this field of work,” said Heidi. “I hope to inspire them, even if it’s just a fraction of the amount of inspiration I gain from them.”

This career has also given Heidi the opportunity to travel extensively throughout Ontario and Canada. When speaking about how this experience has positively impacted her, Heidi said, “I’m not afraid to do anything on my own anymore. It’s quite liberating. I’d miss out on a lot of opportunities if I didn’t learn how to keep myself company, let my guard down, and enjoy life unapologetically.”



CAREER HIGHLIGHT

# Housing

**ABOUT:** Housing is a broad term that can be applied to many different careers. Whether you're interested in the design, construction, or inspection stage, you can find a career in Housing that's right for you!

**SKILLS & INTERESTS:**

- Design
- Planning
- Art
- Math
- Computer literacy
- Problem solving

**SALARY RANGE:**

\$37,440 - \$180,000

**CAREER OPPORTUNITIES:**

- Infrastructure Specialist
- Housing Inspector
- Junior Architect
- Interior Design
- Construction
- Urban Planning
- Education

**HELPFUL HIGH SCHOOL COURSES:**

Math, Science, Engineering

**COLLEGE/UNIVERSITY PROGRAMS:**

- Architecture Technology
- Construction
- Engineering Technician
- Civil Engineering Technician

“Creative and artistic skills are just as important as the technical ones.”



**COMMUNITY:**  
Moravian of the Thames

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**SCHOOL:**  
St. Clair College

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**PROGRAM:**  
Architectural Technology

## HOUSING ROLE MODEL: EMILY OUELLETTE

**BIO:** Emily is currently in her last semester of the Architecture Technology Program at St. Clair College. Creativity comes naturally to Emily because she enjoys the process of designing something and seeing that design come to life.

“I’m most excited to be part of a project and see that building be completed in real life,” Emily said. “Before studying architecture, I didn’t realize how big of an affect a building can have on a community and I look forward to being able to create that effect positively.”

Emily completed her Woodworking Technician Diploma in 2017 and is also a recipient of OFNTSC’s 2019 Student Scholarship Awards. She is now the president of the Architecture Club at her school. Her skills and interest in woodworking transferred perfectly into the field of Architecture and she loves the career path she has chosen.

Emily believes that First Nations youth should pursue technical careers because there are “many transferrable skills such as analytical thinking, problem solving, attention to detail, communication, and computer skills.”

“A common misconception about the technical field is that you only need technical skills,” Emily said. “It’s important to be able to communicate your technical skills in a way that can be understood by clients, or someone who doesn’t know anything about the field.”

Emily looks forward to one day giving back to her community and hopes that other youth will choose to pursue a career in architecture technology, or a related field. “I hope, in the future, to be able to make an impact in the First Nations communities with my innovative ideas and passion for sustainability,” Emily said.

“I also hope to be able to encourage other First Nations people, especially women, to study science and technology related fields, and to utilize their knowledge to help our communities.”



# Mining

**ABOUT:** Mining is all about mineral extraction. The basics of mining include finding, extracting, and preparing minerals, metals and coal. These products are used by manufacturing industries. Miners also supervise the construction of underground mine operations and create ways to transport the extracted minerals to processing plants. The engineering side involves innovating new and creative ways in order to access these materials and overcoming difficult obstacles.

**MINING SKILLS & INTERESTS:**

- Math
- Environment
- Safety
- Technology
- Planning
- Sustainability

**SALARY RANGE:**

\$50,000 - \$200,000

**CAREER OPPORTUNITIES:**

- Driller/Blaster
- Environmental Technician
- Geologist
- Heavy Equipment Operator
- Engineer
- Heavy Equipment Mechanic
- Surveyor

**HELPFUL HIGH SCHOOL COURSES:**

- Science
- English
- Math
- Technology
- Construction
- Design

**COLLEGE/UNIVERSITY PROGRAMS:**

- Mining Engineering
- Mining Engineering Technician/Technology
- Geology
- Underground Common-core Course

“Whenever an opportunity comes, just take it.”

**COMMUNITY:**

Chippewa of the Thames

**OCCUPATION:**

Asset Management Advisor

**EMPLOYER:**

Ontario First Nation Technical Services Corporation

**EDUCATION:**

3-year mining engineering technology advance diploma, underground common core for mining and mining plants.

## MINING ROLE MODEL: DEAN DEBASSIGE

**BIO:** As a child, Dean always wanted to “work with really big equipment and blow stuff up.”

Naturally, mining was the perfect fit!

However, what Dean didn't expect to find when he chose to work in the mines was a community of people who are extremely hardworking, funny, and passionate about helping society. “My favorite part of the job was working with the older people in the mines who have been there for a long time,” said Dean. “They have a lot of interesting stories and they're some of the funniest people you'll ever talk to. I think that makes it worthwhile, just the history of mining through their eyes.”

Dean also saw the benefit he was bringing back to his community, and First Nations people in general. “I think First Nations youth should pursue technical careers because you bring a lot of respect back to your community,” Dean said. “You show that Indigenous people can work really hard and accomplish big things. It will help our youth in the long run and in their futures.”

On sharing some advice for students attending school Dean emphasized the importance of going to class and studying something that you love. “Showing up to class is half the battle... attendance will bring you a long way in school.”



# Trades

## TRADE: PLUMBING

**ABOUT:** Plumbers install and repair pipes and fixtures that carry water, gas, or other fluids in homes and businesses. They also maintain plumbing fixtures like bathtubs and toilets and appliances such as dishwashers or heating systems.

### PLUMBING SKILLS & INTERESTS:

- Physical coordination
- Problem solving
- Mechanics / being mechanically inclined
- Logistics
- Communication
- Endurance

### SALARY RANGE:

\$67,582 - \$92,333

### HELPFUL HIGH SCHOOL COURSES:

- Grade 12 English
- Math
- Physics
- Physical Education

### COLLEGE/UNIVERSITY PROGRAMS:

- Plumbing Technician
- Plumbing Techniques
- Construction Techniques

## TRADE: ELECTRICIAN

**ABOUT:** An Electrician is a skilled professional who installs, maintains, and repairs electrical systems in buildings and structures. They execute wiring plans, install fixtures and equipment, and ensure safety compliance. Electricians have expertise in various electrical systems, tools, and safety regulations.

### ELECTRICIAN SKILLS & INTERESTS:

- Communication and people skills
- Problem Solving
- Logic
- Physical Dexterity

### SALARY RANGE:

\$64,020 - \$81,900

### HELPFUL HIGH SCHOOL COURSES:

- Grade 12 Mathematics
- Grade 12 English
- Physical Education
- Physics

### COLLEGE/UNIVERSITY PROGRAMS:

- Electrical Engineering Technician
- Electrical Technology
- Electrician Pre-Apprentice Program



# Trades

## WELDING: THE BEST KEPT SECRET IN CAREER PLANNING

**ABOUT:** Welding is a fabrication or sculptural process that joins materials, usually metals or thermoplastics, by causing coalescence. The fact is welding is a critical skill that will always be in demand. From the beginning of modern civilization, we have relied on the skills of welders to enrich our lives.

### WELDING SKILLS/INTERESTS:

- Problem Solving
- Endurance
- Interpersonal
- Hand and Eye Coordination
- Attention to detail
- Ability to work in extremely hot or cold conditions
- Listening
- Logic

### WELDING APPROXIMATE EARNINGS:

- Welding Apprentice = \$25,000-\$37,000
- Welder (I, II, III) = \$26,000-\$61,000
- Welding Inspector = \$57,000-\$84,000
- Senior Welding Engineer = \$80,000-\$107,000

### HELPFUL HIGH SCHOOL COURSES:

- Math
- Science
- Geometry
- Physics
- English

### CAREER OPPORTUNITIES:

- Welder
- Welding Engineer
- Structural Iron Worker
- Sheet Metal Worker
- Underwater Welder
- Pipefitter
- Boilermaker
- Machine Operator

“Set a goal and never ever give up.”

**AGE:** 29

**COMMUNITY:**  
Six Nations of the Grand River

**OCCUPATION:**  
Welder Fitter

**EMPLOYER:**  
Fowler Metal Industries

**SCHOOL:**  
Six Nations Polytechnic

**PROGRAM:**  
We Are Welders



## TRADES ROLE MODEL: ASHLEY MONTOUR

**BIO:** After having two children, Ashley knew that she wanted to provide for them, and be a good role model as they grew up. “It’s rewarding having my kids see me as a role model for them,” said Ashley. “I have two sets of eyes on me at all times so what I do is what they’ll do.”

When she saw the “We Are Welders” program being advertised at Six Nations Polytechnic in Brantford, she decided to give it a try. Little did she know, she was about to embark on a career that she not only loved, but found extremely rewarding as well.

One of the things Ashley loves most about being a Welder are the opportunities to learn and grow. “My favourite part of my job is probably working with other people, gaining new knowledge, [and] anything that has to do with learning.”

“I think that First Nations youth should pursue a technical career or trade because it’s more hands on,” said Ashley. “It’s rewarding. If you start right out of high school then you’ll never know where you’ll end up by the time you’re 40 or 50.”

And while Ashley is employed full-time now, it was not an easy road to get there. She initially failed the Certified Welding Bureau test three times, but finally on the fourth test, she passed with flying colours.

“Never ever give up,” is something Ashley tells herself and her children frequently.

Ashley’s message to other First Nation youth is to “Find something you’re passionate about. You have to have the love for it in order to love it. So, find something you’re very passionate about. After that it’s smooth sailing.”



## CAREER HIGHLIGHT

# Water and Wastewater

**ABOUT:** Water and wastewater is one of the most important jobs available. An operator can recognize pathogens and also know what the effect is on drinking water. Not only that but how to treat it and proper secondary disinfection for distribution purposes. Safe drinking water is required everywhere and has many opportunities through every community.

### SKILLS & INTERESTS:

- Public Health
- Environmental Concern
- Work Ethic
- Water rights

### SALARY RANGE:

\$50,000 - \$150,000

### CAREER OPPORTUNITIES:

- Water and Wastewater Operator
- Environmental Technician
- Lab Technician
- Scada Operator
- Water Quality Technician
- Water Compliance Officer

### HELPFUL HIGH SCHOOL COURSES:

- Math
- Science
- English
- Chemistry

### COLLEGE/UNIVERSITY PROGRAMS:

- Water Quality Technician
- Operator in Training (Entry-Level Course for water Operators)
- Water Quality Analyst

**“As long as you put in the work, there will always be space for anyone entering this field.”**

### COMMUNITY:

Ogoki Post Marten Falls  
First Nation

### OCCUPATION:

Water Technician, Operator in  
Training

### EMPLOYER:

Ontario First Nations Technical  
Services Corporation

### EDUCATION:

Environmental Technician and  
Environmental Technology  
program, Entry-Level Course  
for Drinking Water Operators,  
Operator-in-Training license.

## WATER AND WASTEWATER ROLE MODEL: JOSEE STREET

**BIO:** Josee is deeply connected to her roots. First Nations people have had some tragedies, some in which her family was a part of; Residential Schooling, The Sixties Scoop and MMIW just to name a few. Thinking this was her history was very overwhelming for her and she felt helpless. She blocked most of the generational trauma out until her spirit was ready. In college was when she started to reconnect slowly to the land and begin to understand the importance of water. On her own time, she learned about her traditional role as a Water Keeper and decided to dedicate her career to helping get clean accessible water to First Nations people in Canada. There were a few other career choices she wanted to get into which were addictions counseling, and police work but they were too triggering. She felt if I could just focus on the water issue, then she will make a difference.

For Josee It's hard to pick just one thing she loves about her job when there are so many aspects that are just amazing. She says: "I get to see all types of water treatment plants, visit multiple FN communities, meet such lively Indigenous folk, travel and see beautiful areas of Ontario, learn about water treatment plant operation hands on, continue getting my own license's, see first hand what issues First Nations are facing while also helping them directly, and most of all I'm healing my spirit and healing my family's generational trauma"

Josee says "I have never been so happy with where I'm at in life. Much of it is thanks to this fulfilling technical career. It's not just one path you choose in the STEM field, it often leads to many other opportunities." She is just at the very beginning and there are endless choices for her to reach her goals. Technical skills are interchangeable and it's good for someone who might not know where they want their path to lead to go into general technical schooling. Technical careers are also good for creativity and innovation.



## CAREER HIGHLIGHT

# Environment & Climate Change Sciences

**ABOUT:** Environmental biologists and scientists use knowledge of earth's systems to protect the environment/climate and human health. They clean up contaminated areas, make policy recommendations, and work with industry to reduce pollution, waste and curb climate change. In general, environmental and climate change scientists are great problem solvers.

### SKILLS AND INTERESTS:

- Science
- Biology
- Nature
- Climate Change
- Conservation

### SALARY RANGE:

\$48,000 – \$98,000

### CAREER OPPORTUNITIES:

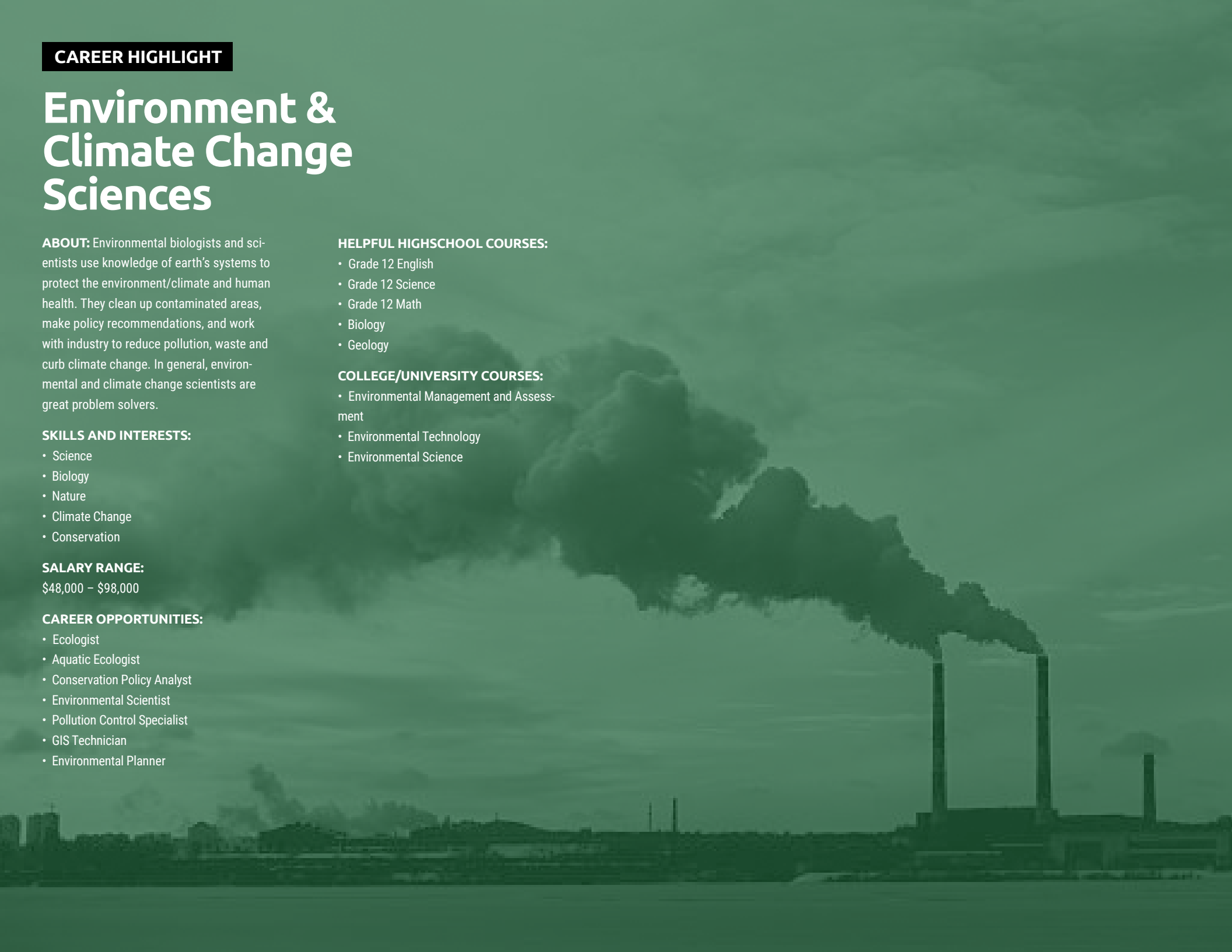
- Ecologist
- Aquatic Ecologist
- Conservation Policy Analyst
- Environmental Scientist
- Pollution Control Specialist
- GIS Technician
- Environmental Planner

### HELPFUL HIGH SCHOOL COURSES:

- Grade 12 English
- Grade 12 Science
- Grade 12 Math
- Biology
- Geology

### COLLEGE/UNIVERSITY COURSES:

- Environmental Management and Assessment
- Environmental Technology
- Environmental Science



## CAREER HIGHLIGHT

# Fire Fighting & Fire Safety

**ABOUT:** Those in firefighting and fire safety are passionate about community service and safety. It combines physical endurance and coordination with excellent communication skills as well as technical knowledge of the equipment operations, procedures and methods used in combating, extinguishing and preventing fires and in rescue work.

### SKILLS AND INTERESTS:

- Physical coordination and fitness
- Community service and safety
- Problem solving
- Risk assessment

### SALARY RANGE:

\$63,000 – \$139,000

### CAREER OPPORTUNITIES:

- Fire fighter
- Fire safety officer
- Health and safety specialist
- Fire alarm technician

### HELPFUL HIGH SCHOOL COURSES:

- Physical education
- Grade 12 English
- Grade 12 Math
- Science
- Technology

### COLLEGE/ UNIVERSITY COURSES:

- Pre-service fire fighting
- Fire Services Occupational Health & Safety

### COMMUNITY:

Six Nations of the Grand River

### OCCUPATION:

Fire Safety Coordinator & Infrastructure Specialist

### EMPLOYER:

Ontario First Nations Technical Services Corporation

### EDUCATION:

Construction Engineering Technician, Certified Building Code Official, Officials Wood Energy Technology Transfer Site Inspector, Fire & Life Safety Educator

## FIREFIGHTING & FIRE SAFETY ROLE MODEL NATHAN HILL

**BIO:** When asked why he entered this career field, Nathan replies: "I thought since a home is typically the largest expense a person has in their life, I wanted to know how to identify a problem and how to fix it. Not only for myself but for those I care about. During my experience in housing I have always had an interest in the health & safety aspects. That has led to the opportunity to take on responsibility as the Fire Safety Coordinator. I am very passionate about fire prevention, public education and making sure everyone knows to test their smoke alarms each month."

Throughout Nathan's time with OFNTSC he has had the opportunity to visit many beautiful First Nation communities all over the province. He loves having the opportunity to visit other communities and different parts of the province, and he describes this as his favourite part of his job.

Nathan's advice for the next generation is that Industries change all the time, sometimes it seems like in the blink of an eye. People are always going to need a safe place to call home and there is always going to be an opportunity to help with that. Whether you are an inspector on site during the construction process to ensure the home is safe before the occupants move in or providing important fire safety public education to ensure occupants are safe after they move in, there is no shortage of opportunities in technical careers on First Nations.

**"The only place where success comes before work is the dictionary."**





# SCHOLARSHIPS FOR INDIGENOUS YOUTH



## Scholarships via Indspire

- Cenovus Indigenous Scholarship
- Transalta Operations & Maintenance Student Bursary
- Hydro One Leonard S. Tony Mandamim Awards
- KPMG's Indigenous Student Award
- OFNTSC Student Achievement
- Canada Post Live Your Dreams Award

## Scholarships via Verna J. Kirkness

- Susan O'Brian Memorial Scholarship
- The Verna J. Kirkness Education Foundation Scholarship

## Additional Scholarships

- Animikii Scholarship VIA Animikii
- RBC Future Launch Scholarship VIA RBC
- TC Energy-3 category scholarships; STEM, Indigenous legacy, and trades VIA TC Energy
- Four Directions Scholarship VIA Oneca

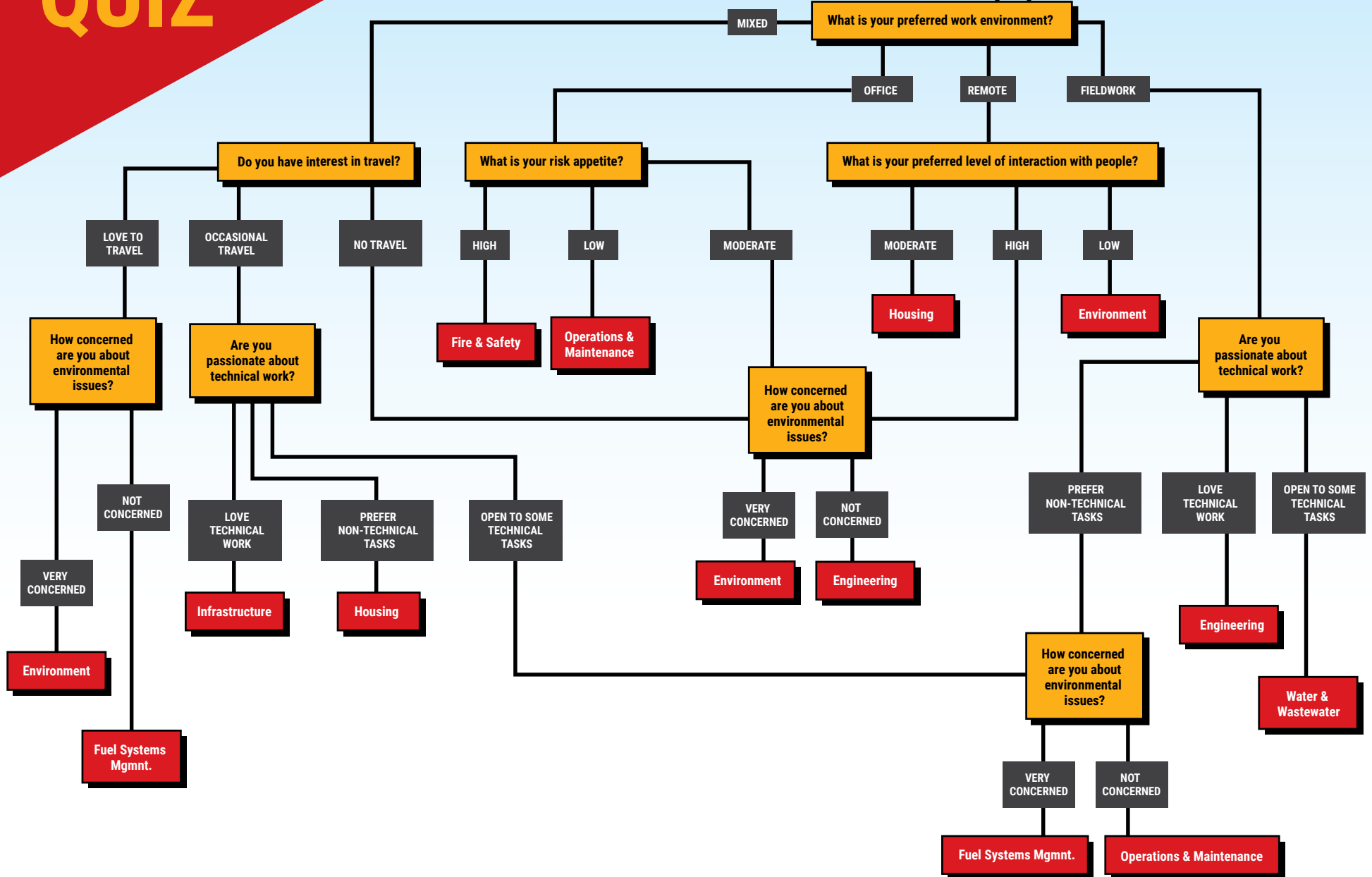




# CAREER PATHWAYS QUIZ

Follow a pathway to discover your **Suggested Field**

**START**



# Careers at-a-Glance

CAREER	INDUSTRY	SALARY RANGE	RELEVANT SKILLS	POST-SECONDARY PROGRAMS	COMPLETION TIME
Infrastructure Specialist	Housing	\$50,000 – 110,000 +	Design, Math, Problem Solving	Civil Engineering Technology	3 Years
Housing Inspector	Housing	\$30,000 – 150,000 +	Design, Problem Solving, Writing	Construction or Civil Engineering Technician Programs	2-3 Years
Architect	Housing	\$24,000 – 177,000 +	Computer Literacy, Design, Art, Computer Literacy	Architecture Technology, Bachelor of Architectural Studies	3 and 4 years respectively
Civil Engineer	Engineering	\$30,000 – 159,000 +	Math, Science, Design, Computer Literacy, Problem Solving	Civil Engineering	4 Years
Mechanical Engineer	Engineering	\$30,000 – 151,000 +	Math, Science, Design, Computer Literacy, Problem Solving	Mechanical Engineering	4 Years
Mining Engineer	Engineering	\$30,000 – 195,000 +	Math, Science, Design, Computer Literacy, Problem Solving	Mining Engineering	4 Years
Environmental Monitor	Environment	\$15 /hr – 35 /hr+	Interest in wildlife and Preservation, Writing	Environmental Studies	4 Years
Environmental Scientist	Environment	\$28,000 – 110,000 +	Chemistry, Preservation, Problem Solving	Environmental Technician	2 Years
Aquatic and Wildlife Technician	Environment	\$27,000 – 130,000 +	Interest in wildlife and Preservation, Writing	Fish and Wildlife Conservation Technician	2 Years
Firefighter	Fire & Safety	\$28,000 – 130,000 +	Physical Fitness, Confidence, Ability to work under pressure	Fire Fighter Pre-Service Education and Training	12-months
Water Treatment Plant Operator	Water & Wastewater	\$15 – 48 /hr+	Desire to Protect Public Health, Thorough, Record Keeping	Operator in Training Exam, Entry-Level course for Water Operators	Apprenticeship after OIT for 1 Year
Water/Wastewater Mechanic	Water & Wastewater	\$30,000 – 70,000 +	Problem Solving, Excellent Practical Skills	On the Job Training	Start Work out of Highschool
Public Works Manager	Operations & Maintenance	\$28,000 – 174,000 +	Communication Skills, Understanding of Budgeting, Strong Leadership	Civil Engineering Technology	3 Years
Emergency Planner	Emergency Planning	\$28,000 – 130,000 +	Critical Thinking and Decision Making, Communication	Certified Emergency Manager Exam (CEM)	Study for Exam out of Highschool
Welder Fitter	Trades	\$15 – 49 /hr+	Ability to read and interpret designs, Excellent Practical Skills	Welding and Fabrication Technician	2 Years
Drilling and Blasting Technician	Mining	\$33,000 – 60,000 +	Calm Hands, Lift Heavy Objects, work in Confined Spaces, Math and Analytical Skills	Mining Engineering Technician, Mining Engineering Technology	2-3 Years
Geologist	Mining	\$33,000 – 136,000 +	Design, Math, Problem Solving, Writing	Geology - Physics, Geoarchaeology,	3-4 years
Heavy Equipment Operator	Trades	\$15 – 56 /hr+	Teamwork, Attention to Detail, Understand Designs	Heavy Equipment Technician	2 years
General Trades	Trades	\$14 – \$26 /hr+	Stamina, Critical Reasoning Skills, Attention to Detail, Willingness to Learn from Peers	Construction, Electrical, Machining,	1 year
X-ray Technician	Health Sciences	\$60,000 – \$90,000 +	Math, Science, Computer Literacy, Analytical, Chemistry	Medical Radiation Technology	3 years
Lab technician	Health Sciences	\$15 /hr – 48 /hr+	Math, Science, Computer Literacy, Analytical, Chemistry	Medical Laboratory Technician	1 year
Surveyor	Trades	\$15 – 44 /hr+	Math, Attention to Detail, Computer Literacy, Problem Solving	Geomatics	2 years



**MY WEEK**

DATE: .....

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	TO DOS
SUBJECT:							
SUBJECT:							
SUBJECT:							
SUBJECT:							
SUBJECT:						<b>SUNDAY</b>	<b>NOTES</b>
SUBJECT:							
SUBJECT:							
Activities:							

**MY WEEK**

DATE: .....

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