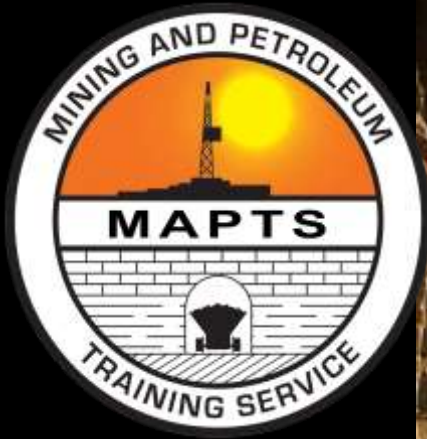


Welcome to MAPTS Mine Training Camp





History

- MAPTS has a long history of providing Industrial compliance training.
- MAPTS also has a long history of providing basic Introduction to mine training.

Today

- MAPTS has gone to the next level by providing actual hands on “in the seat training” or what’s known as...
Hard Skills.
- The success of this program would also require an employability component or what we call...
Employability Skills.





Daren Case



Jim (Smitty) Smith

Instructors

130 years of
combined mining
experience



Mike Azzara



Peter (Boise) Alexie



William Bieber



Curriculum



MAPTS Underground New Miner Camp Syllabus

MAPTS Training Plan
Overview of Modules 1 - 16

Segment	Objectives	Essential Skills
Module 1 Orientation to UG New Miner Camp at DMTC	Overview of four week program	De
Module 2 Softskills	Develop/Strengthen Working Behaviors & Personal Management Skills	De
Module 3 Regulatory Compliance Review	Review of students comprehension of compliance requirements	De
Module 4 Introduction to the DMTC Work Environment	Knowledge of UG areas of DMTC and functions	De
Module 5 Housekeeping	Maintenance of workplace in a safe and efficient manner	De
Module 6 Rigging	Knowledge of safe rigging in underground environment	De
Module 7 Mine Utilities	Knowledge of UG mine systems and maintenance	De
Module 8 Ground Control	Inspection of ground hazard recognition ground control methods	De
Module 9 Mine Maps & Ventilation	Orientation to UG environment with mine maps	De

PERFORMANCE EVALUATOR CHECKLIST
JACK LEG DRILLING

Student Name: _____

Evaluator: _____

----- **01 Demonstrate an understanding of company policy regarding drilling policies, rules, and regulations**

----- **02 Set-Up**

- Properly identifies mechanical parts relevant to Jackleg operations
- Assemble all required components for the job to be done
- Visually inspect workplace for any hazards
- Thoroughly scale the area to be drilled

----- **03 Ready face**

- Shoot line and grade
- Paint face

----- **04 Set-Up Jackleg**

- Blow out airlines before connecting to the machine
- Wash out water line
- Fill lubricator with proper weight rock drill oil
- Connect air and water lines securely to machine. Whip checks are required on the airline connection for hand-operated drills
- Put all machine controls into neutral and slowly open air and water headers
- Check for proper operation of all drill functions. If drill does not function properly tag it for repair
- Demonstrate proper lifting techniques and body alignment, agility and situational awareness
- Position drill for accurate and efficient drilling

----- **05 Select proper steel and bits**

- Demonstrates proper selection of steels and bits

----- **06 Collar hole**

Monitors activity around drill and rotating steel:

- Ensures no one comes into contact or touches a rotating drill steel
- Ensures no person is allowed to stand in front of the machine while it is on

Maintains control of Jackleg while collaring:

- Checks air connections frequently, vibration can cause lines to loosen and come off
- Properly lifts the jackleg into position while keeping back straight and maintaining a position
- Ensures the leg is securely anchored so it will not kick out
- Inserts the desired length of steel into the chuck of the drill. Typically a 4-foot steel but a 2 ft steel can also be used
- Positions the bit on the rock in the location to be drill the hole
- Slowly turns the leg pressure control on until the leg starts to extend. Using the th on the water and slow rotation, holds the drill in position against the rock until the penetrated the rock
- Is prepared to release the leg pressure or let the jackleg go in case the bit slips on the face

Drilling with a Jackleg - Certificate of Competency

Participants Name: _____

Last Name _____ First Name _____ Date _____

Location _____ Class _____

Competent Person _____, Yukon College (CNIM)

TASK #	SPECIFIC DUTIES/TASKS	DATE	Meets Requirements	Needs More Instruction
01	Demonstrates understanding of policies, rules, regulations			
02	Proper set-up			
03	Readies Face properly			
04	Set-up Jackleg			
05	Proper selection of steel and bits			
06	Collar Hole skillfully			
07	Accurately drills holes			
08	Proper tear down			
09	Health, safety and environmental aspects of Tasks			
10	Essential Equipment Knowledge			

Consent/Release: I, the undersigned, hereby authorize Mining and Petroleum Training Service (MAPTS), University of Alaska or Yukon College, CNIM to release the information and results attained through the administration of the Delta Mine Training Center Underground New Miner Camp program to any organization or company that requests these results.

Accredited Assessment Center(s):

Yukon College/CNIM
Shelagh Rowles, Executive Director
500 College Drive, PO Box 2799
Whitehorse, Yukon Y1A 5K4 Canada

Mining and Petroleum Training Service
William Bieber, Executive Director
162 College Road
Soldotna, Alaska USA 99669

Participant's Signature: _____ Date: _____

Performance Evaluator Signature: _____ Date: _____

MAPTS Executive Director Signature: _____ Date: _____

YCCNIM Executive Director Signature: _____ Date: _____



New Mine Training Camp

Employability Skills

- Employer expectations
- Team work
- Job readiness and personal preparation
- Working in a multicultural workforce
- Life Balance and quality time with the family
- Finance and money management
- Prepare for the long term employment
- Be ready when opportunities present themselves
- Camp life
- Prepare yourself and your family to be away from home on rotation
- Focus on student weaknesses and build on the strengths





Safety & Environmental Compliance

- MSHA Part 48
- MAPTS Mine Training Facility Safety and Environmental Compliance
- Field Level Risk Assessment (FLRA)
- Emergency Medical Response and Procedures
- Incident/Accident Reporting





Hard Skills Underground



- General mining theory
- Ground control (barring down)
- Utilities and nipper duties
- Jackleg drilling/rock bolting & mat placement
- LHD simulation, pre-shift and operation
- Underground loading, hauling and dumping LHD
- Underground haul truck simulation, pre-shift inspection and operation
- Underground hauling and dumping
- Hauling to surface and surface dump operations
- Dozer operation on the surface



Required Underground Competencies

- General Safety practices
- Soft Skills
- Reports and documentation
- Workplace inspections
- Ground Control
- Utilities placement and identification
- Jackleg drilling and maintenance of machine
- Rock bolting (split sets, cable bolts, swellex bolts)
- Haul truck simulation Toro 040
- Haul truck Pre-shift and operation
- LHD simulation with Toro 007, pre-shift and operation
- LHD Wagner pre-shift and operation
- D5G XL pre-shift and operation





Hard Skills

Surface Haulage



- General mining theory
- Open pit mining and haulage safety
- Surface mine haul road and dump safety
- Haul truck simulation Cat 777 pre-shift and operation
- Haul truck operation 769D
- Haul truck Volvo Articulated
- Haul truck loading, hauling and dumping
- Surface dozer operation
- Dump maintenance and truck spotting



Required Surface Competencies

- General safety practices
- Soft Skills
- Reports and documentation
- Workplace inspections
- Open pit mining and haulage safety
- Surface mine haul road and dump safety
- Haul truck simulation Cat 777 pre-shift and operation
- Haul truck operation 769D
- Haul truck operation Volvo Articulated
- Haul truck loading, hauling and dumping
- Surface dozer operation
- Dump maintenance and truck spotting



Simulator Training

Surface Equipment

Cat 777 Haul Truck

Cat D-10

Cat Loader

Underground Equipment

Toro 007 LHD

Scoop Tram/LHD/Mucking

DUX 20 ton UG Haul Truck

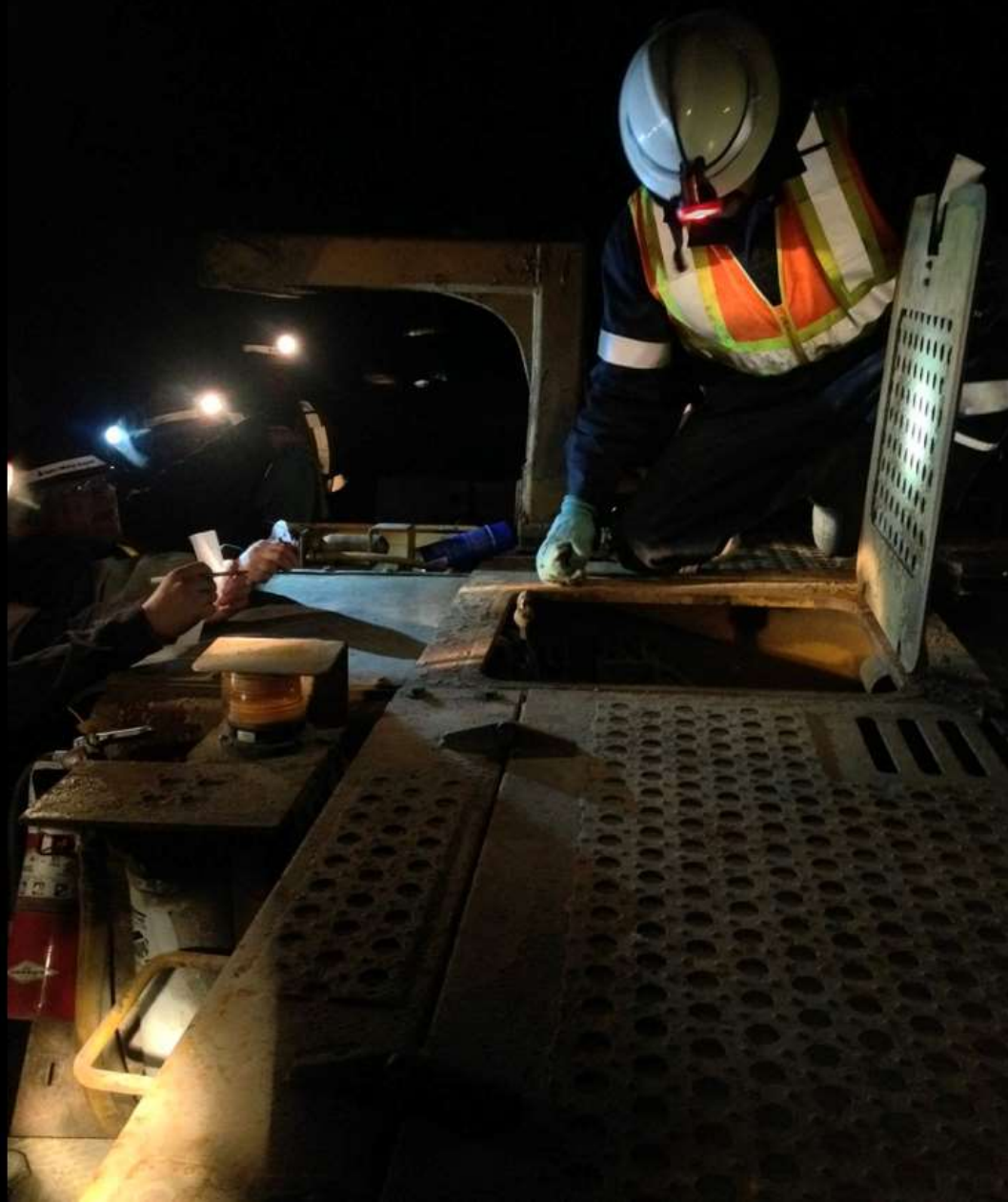




Learning
Equipment
Inspection

**Initial
operating skills
on the
surface...**



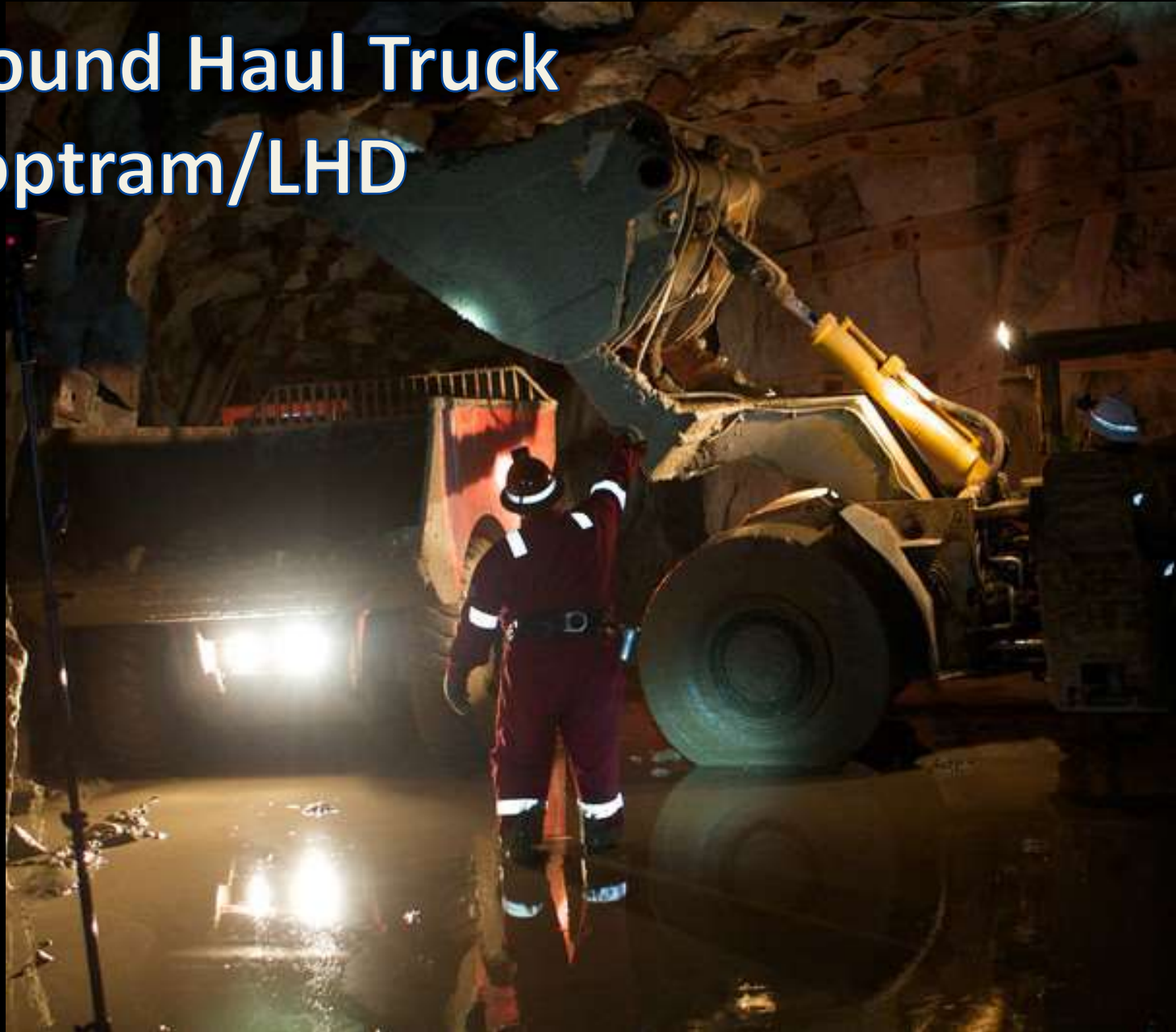


**Transferring
those skills
to underground**

Jackleg Drilling



Underground Haul Truck and Scooptram/LHD



Utilities Installation and Repair



Surface Operations



Newest addition to the fleet



2008 Case Model 340B, 6WD 40 ton



Current Industry Partners and Contributors

- University of Alaska
- Yukon College Whitehorse Canada (*and their industry partners*)
- AK DOL Workforce Development
- Pogo Mine/Sumitomo Metal Mining LLC
- Greens Creek Mine/HECLA Mining Company
- Kensington Mine/COEUR Mining
- Donlin Gold
- Calista Native Corp and Subsidiaries
- Cruz Construction/mining division
- Craig & Klawock Tribal Council in support of (Niblack & Bokan)
- Crooked Creek Village Tribal Council
- Tanana Chiefs Conference
- Doyon Drilling
- Schlumberger Oil Field Services
- Alaska Miners Association
- Resource Development Council
- Arctic Fire and Safety
- Techline Alaska LLC
- Craig Taylor Equipment (Fairbanks)
- Orica Blasting
- Interior Hardware (Delta Junction)





Oil and Gas Roustabout Training

- Complete Well head on skids
- Slick line trailer mount unit
- Delta Crane
- Boom truck for rigging
- Injection pumps





*Believe in
yourself and
great things
will happen!*



MINING AND PETROLEUM TRAINING SERVICE