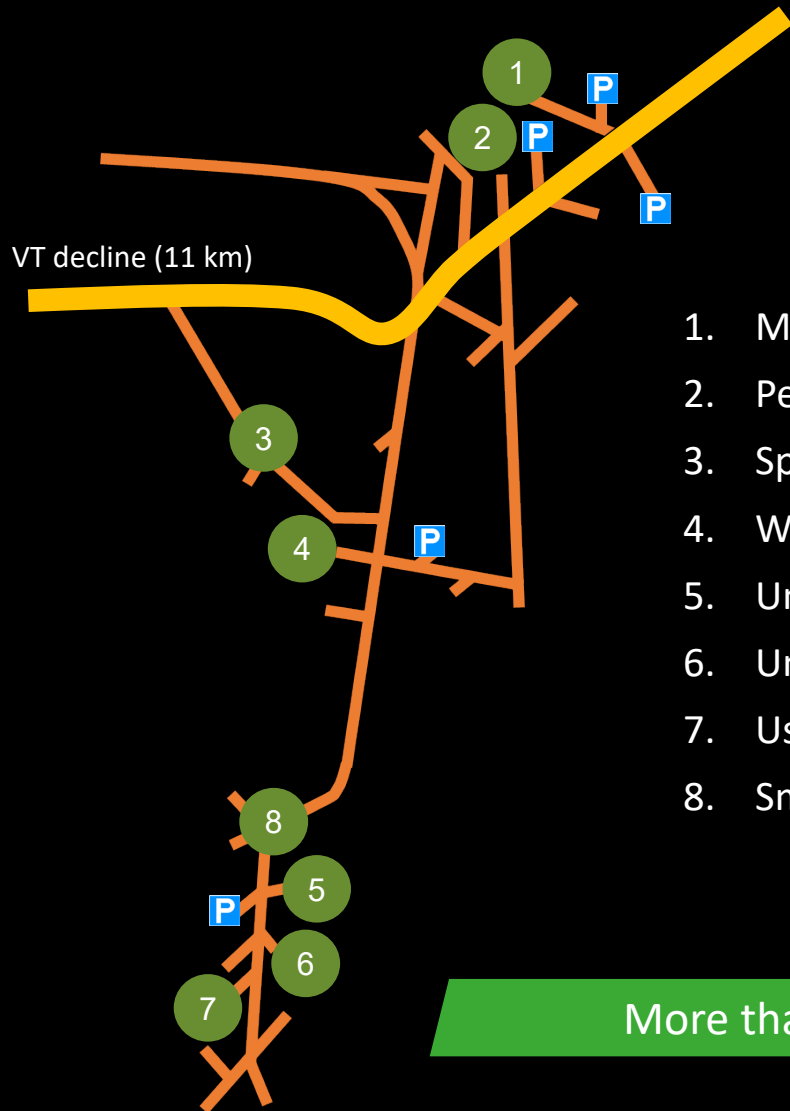


UNDERGROUND RESCUE TRAINING CENTER – AREA MAP

MINE FOR BUSINESS
CALLIO
PYHÄJÄRVI, FINLAND



1. Main entrance, classrooms and social rooms
2. Personal protective equipment training area
3. Spiral staircase and shaft rescue training area
4. Working at heights and with a risk of falling (rope and harness training)
5. Underground traffic accident training area (pick-up vehicle + mining work machine)
6. Underground fire and training area for using extinguishing grenades
7. Use of the rescue chambers and detection of dangerous and toxic gas leaks
8. Smoke diving in artificial smoke and practicing in rescue work (using a thermal camera)



More than 16 hectares of training areas in the depth of 400 m in Pyhäsalmi Mine

ADMISSIONS

OPEN FOR

MineTRAIN

STUDY IN PYHÄJÄRVI, FINLAND!

EXPERT LEVEL, MODULES 1-4 INTENSIVE EDUCATION & HANDS-ON EXERCISES IN PYHÄSALMI MINE
ALL PRICES VAT 0%, MIN 10 STUDENTS PER COURSE

MINE FOR BUSINESS
CALLIO
PYHÄJÄRVI, FINLAND

1. Mining basics

Content:

- Health, Security and Safety
- Geology and geophysics
- Mining planning, technology and operations at Pyhäsalmi
- Mineral processing
- Environment protection and mine closure
- Normet factory visit, Iisalmi

Included:

- Local transportation
- Accommodation & meals

Cost 1.900€/student (VAT 0 %)

On-site education Pyhäjärvi

Duration 2 days (Mon-Fri)

Pax size 10-15 students

2. Mining - Environment

Content:

- Environmental Management System (EMS)
- Environment Impact Assessment (EIA)
- Ventilation, waste and land fills – examples at Pyhäsalmi
- Water & sludge treatment
- Mine closure & environment

Included:

- Local transportation
- Accommodation & meals

Cost 1.500€/student (VAT 0 %)

On-site education Pyhäjärvi

Duration 2 days (Mon-Fri)

Pax size 10-15 students

3. Mining - Health & Safety

Content:

- Risks & Hazards
- Health, Security and Safety
- Working safety in mine
- Procedures to prevent, control and monitor risks
- Underground rescue – hands on training and exercises

Included:

- Local transportation
- Accommodation & meals

Cost 2.100€/student (VAT 0 %)

On-site education Pyhäjärvi

Duration 2 days (Mon-Thu)

Pax size 10-15 students

4. Digital life of Mine

Content:

- Mining technology and solutions
- Digitalisation and technologies in mining
- Mineral processing technology
- Sandvik Tampere test mine visit – familiarization to automation

Included:

- Local transportation
- Accommodation & meals

Cost 2.400€/student (VAT 0 %)

On-site education Pyhäjärvi, visit in Sandvik, Tampere

Duration 2 days (Mon-Fri)

Pax size 10-15 students

5. Mine life-cycle (Webinar)

Content:

- Introduction
- Health & safety
- Geology
- Mining and mineral processing
- Environment protection and mine closure

- **To be launched in 2023**

Cost 140€/student (VAT 0 %)

Online education via WEB

Duration 1 day

No limit of students



ADMISSIONS

OPEN FOR

Underground
Rescue

STUDY IN PYHÄJÄRVI, FINLAND!

EXPERT LEVEL, MODULES 1-4 INTENSIVE EDUCATION & HANDS-ON EXERCISES IN PYHÄSALMI MINE
ALL PRICES VAT 0%, MIN 6 STUDENTS PER COURSE MODULE

MINE FOR BUSINESS
CALLIO
PYHÄJÄRVI, FINLAND

Work at Hight Training

Content:

- Risks, Slips, Trips and Falls?
- Preventing Fall Fatalities
- Preventing and eliminating slip, trip and fall hazards
- Exercise – Rope Carry & Rescue
- Exercise – Descending, anchors, knots, stoppers
- Exercise – Lowering, Raising

Included:

- Local transportation
- Lunch, coffee, refreshments

Cost 400€/student (VAT 0 %)

On-site education Pyhäjärvi

Duration 1 day (Mon-Fri)

Pax size 6-10 students

Mining Safety & Emergency

Content:

- Mining safety requirements?
- Working safety and hazards prevention at Pyhäsalmi mine
- Traffic - machines, vehicles and safety requirements
- Exercise – Emergency situation
- Exercise – Refuge chambers
- Exercise – Pyhäsalmi mine tour

Included:

- Local transportation
- Lunch, coffee, refreshments

Cost 400€/student (VAT 0 %)

On-site education Pyhäjärvi

Duration 1 day (Mon-Fri)

Pax size 6-10 students

Underground Safety I

Content:

- Theory and orientation
- Underground safety practices
- Use of protective equipment
- Rescue teams and equipment
- Exercise – Emergency situation
- Exercise – Vehicle accident
- Exercise – HERO extinguisher generators in underground fire

Included:

- Local transportation
- Lunch, coffee, refreshments

Cost 500€/student (VAT 0 %)

On-site education Pyhäjärvi

Duration 1 day (Mon-Fri)

Pax size 6-10 students

Underground Safety II

Content:

- Theory and orientation
- Fire, toxic atmospheres, gas explosions, chemical hazards
- Structural collapse of tunnels
- Flood, dust, noise, blasting
- Exercise – Emergency situation
- Exercise – Vehicle fire & rescue
- Exercise – Mine shaft rescue

Included:

- Local transportation
- Lunch, coffee, refreshments

Cost 500€/student (VAT 0 %)

On-site education Pyhäjärvi

Duration 1 day (Mon-Fri)

Pax size 6-10 students



TRAINING FACILITIES IN CALLIO PYHÄJÄRVI

MINE FOR BUSINESS
CALLIO
PYHÄJÄRVI, FINLAND



Pyhäjärvi



Pyhäsalmi Mine Oy



Mining area



Working at heights



Rescue chambers and detection of dangerous and toxic gas leaks



Safety of mining vehicles



Evacuation exercises



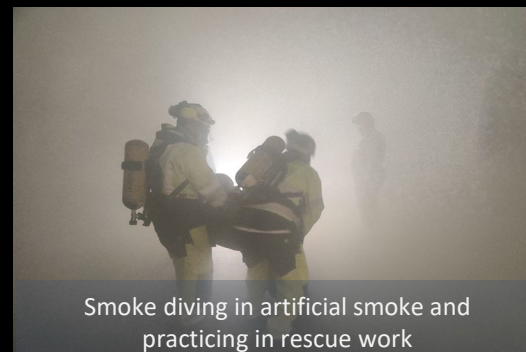
Heat camera in rescue missions



Underground traffic accident training



Underground fire and training area for using extinguishing grenades



Smoke diving in artificial smoke and practicing in rescue work



Vehicle accidents and fire