

PEAK PERFORMANCE FOR THE OCCUPATIONAL ATHLETE

MED-I-WELL SERVICES

Innovative Health and Wellness Solutions



MED-I-WELL SERVICES

Founded in 1998, Med-I-Well Services delivers sustainable drug benefit management programs, comprehensive corporate and industrial wellness programs, and corporate fatigue risk management programs to assist organizations with cost savings while improving their employees' health, safety, and productivity.

PEAK PERFORMANCE TRAINERS







KRISTINA VAN LANKVELT

BSc Exercise Science Masters in Public Health

Canadian National Volleyball Team

ACSM Personal Trainer Certified Life Coach

EMILY TETZLAFF

BPHE Health Promotion Masters in Human Kinetics

Laurentian Varsity Women's Cross-Country Running

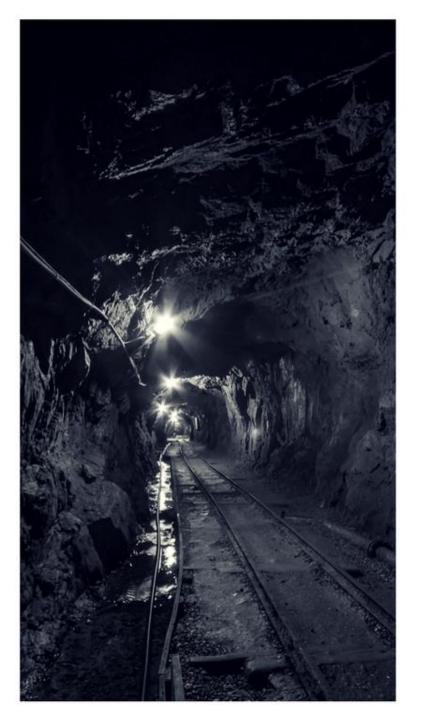
ACSM Personal Trainer

TOON VAN LANKVELT

BA Psychology

12 year professional Volleyball career & Canadian Olympic Team Alternate

Red Cross First Responder



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WHAT IS AN OCCUPATIONAL ATHLETE



HOW DO ATHLETES PREPARE?

There are many similarities between emergency preparedness and how professional athletes prepare for success on the field.

1. YOUR LIFESTYLE MUST REFLECT YOUR OVERALL GOALS.

Consistently eat healthy, hydrate properly, achieve optimal sleep and be mentally and physically fit.



ASK YOURSELF

"Am I prepared to achieve peak performance?"

CURRENT PHYSICAL TRAINING PRACTICES

MUSCULAR STRENGTH

35% Mine Rescue 33% Smelter Rescue

CARDIOVASCULAR

50% Mine Rescue 42% Smelter Rescue



STRETCHING

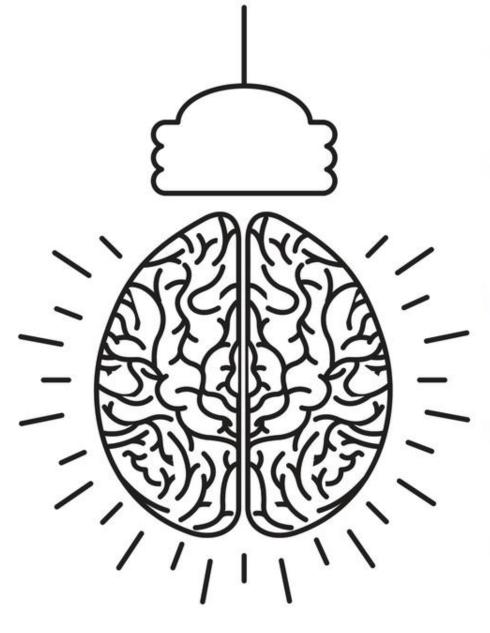
9% Mine Rescue 8% Smelter Rescue

BALANCE & STABILITY

7% Mine Rescue 4% Smelter Rescue

MUSCULAR ENDURANCE

16% Mine Rescue 25% Smelter Rescue



MEDITATION

4% Mine Rescue 25% Smelter Rescue

BREATHING

22% Mine Rescue 29% Smelter Rescue

SIMULATION

9% Mine Rescue 4% Smelter Rescue

SELF-TALK

9% Mine Rescue 17% Smelter Rescue

VISUALIZATION

7% Mine Rescue 21% Smelter Rescue

CURRENT MENTAL TRAINING PRACTICES

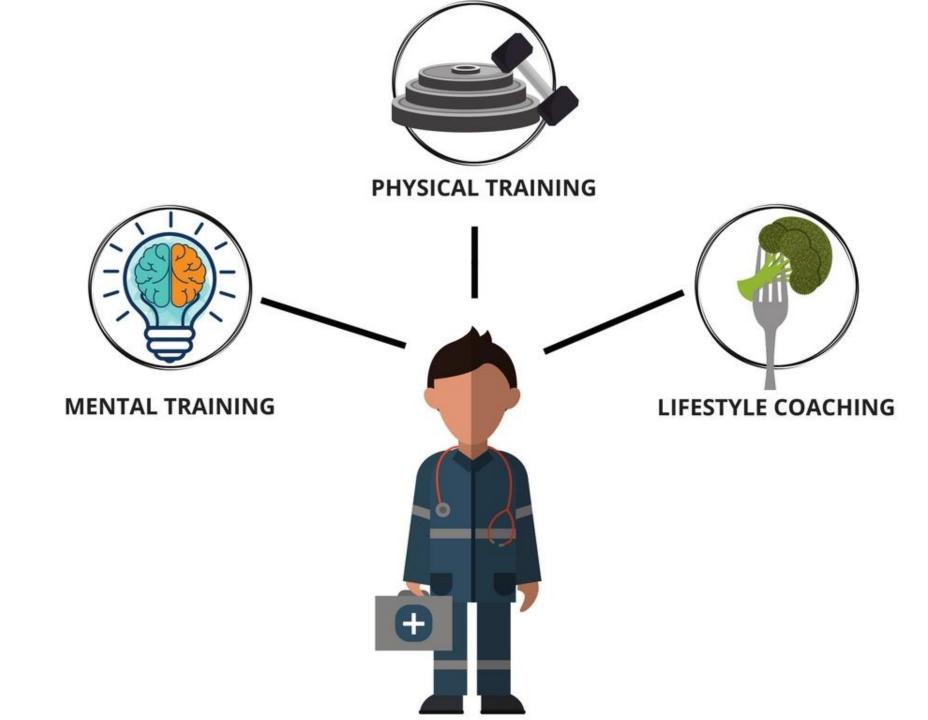


87% MINE RESCUERS

92%

SMELTER RESCUERS

had never heard the term occupational athlete





MINE RESCUE

65 MEN I 3 WOMEN

10 x 1.5 hour sessions 5 companies <1-27 years of experience 18-58 years of age

SMELTER RESCUE

24 MEN

2 x 3 hour sessions 1 company <1-11 years of experience 25-55 years of age



PHYSICAL TRAINING

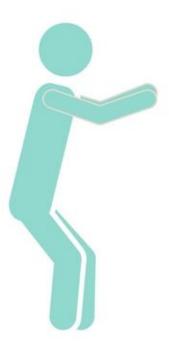
TRADITIONAL TRAINING

Exercises that isolate joints and muscles are training muscles, not movements, which results in less functional improvement.



FUNCTIONAL TRAINING

Exercises that use complete muscle activation against a resistance and a purposeful movement pattern which allows for maximum strength gains.



FUNCTIONAL TRAINING COMPONENTS



CORE STRENGTH

Confined space & injury prevention core work.



GRIP & FOREARM STRENGTH

Task specific strengthening for basket carry, pulley systems, and lifting technique.



STRETCHING

Preventing musculoskeletal disorders, warming-up and cooling down pre- and post-training.



PRE-HABILITATION EXERCISES

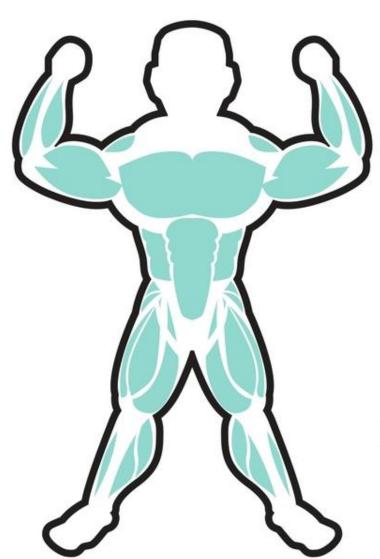
Preventing injuries, correcting dysfunctions, restoring biomechanics, optimizing movement and improving performance.



PRIORITY PHYSICAL TRAINING PRACTICES

FOREARM STRENGTH

19% Mine Rescue 21% Smelter Rescue



GRIP STRENGTH

37% Mine Rescue 33% Smelter Rescue

CORE STRENGTH

32% Mine Rescue 75% Smelter Rescue

INCLINE WALKING

46% Mine Rescue

FINE MOTOR SKILLS

83% Smelter Rescue

LOW-BACK STRENGTH

31% Mine Rescue

13% Smelter Rescue



MENTAL TRAINING

VISUALIZATION IS THE ABILITY TO

"See first hand with your mind, then with your eyes, and finally with your body"

MASTER SWORDSMAN YAGYU MUNENORI

MENTAL TRAINING COMPONENTS

1

FLOW STATE

Learning about your personal "in the zone" state.

2

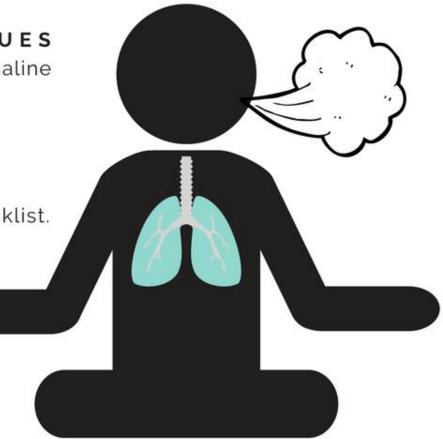
BREATHING TECHNIQUES

Using your breath in high adrenaline states.



SELF-AWARENESS

Creating your own mental checklist.



"AN ASTRONAUT'S GUIDE TO LIFE"

Feeling ready to do something doesn't mean feeling certain you'll succeed, though of course that's what you're hoping to do. Truly being ready means understanding what could go wrong and having a plan to deal with it.

Chris Hadfield

COMBATING NEGATIVE SELF-TALK

10% Mine Rescue

10% Mine Rescue 42% Smelter Rescue

HIGH-ADRENALINE CONTROL

19% Mine Rescue 46% Smelter Rescue

PRIORITY MENTAL TRAINING PRACTICES

POST-RESCUE

18% Mine Rescue 71% Smelter Rescue



PRE-CALL ANXIETY

18% Mine Rescue 38% Smelter Rescue

MENTAL ENDURANCE

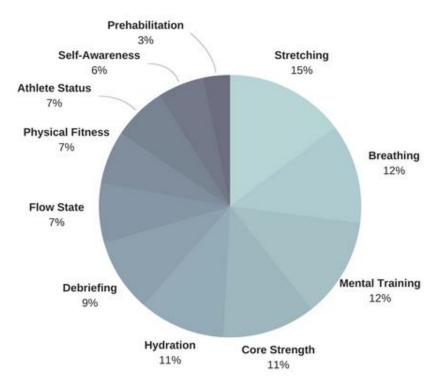
22% Mine Rescue 33% Smelter Rescue



LIFESTYLE COACHING







MINE RESCUERS

STRETCHING I FUNCTIONAL TRAINING I BREATHING

SMELTER RESCUERS

STRETCHING I MENTAL TRAINING I BREATHING



DURATION

MINE

SMELTER 46% longer than

28% longer than

an hour an hour

66% one hour

33% one hour



FREQUENCY

MINE

93% bi-monthly

sessions

SMELTER

50% quarterly

29% all sessions

13% once a year

*90% of participants that are on their sites competition team would like additional sessions.

99%

found the training impactful and informative



100%

found the training impactful and informative

92%

were
interested in
additional
training
sessions



100%

were
interested in
additional
training
sessions

100%

found the training practical and hands-on



100%

found the training practical and hands-on

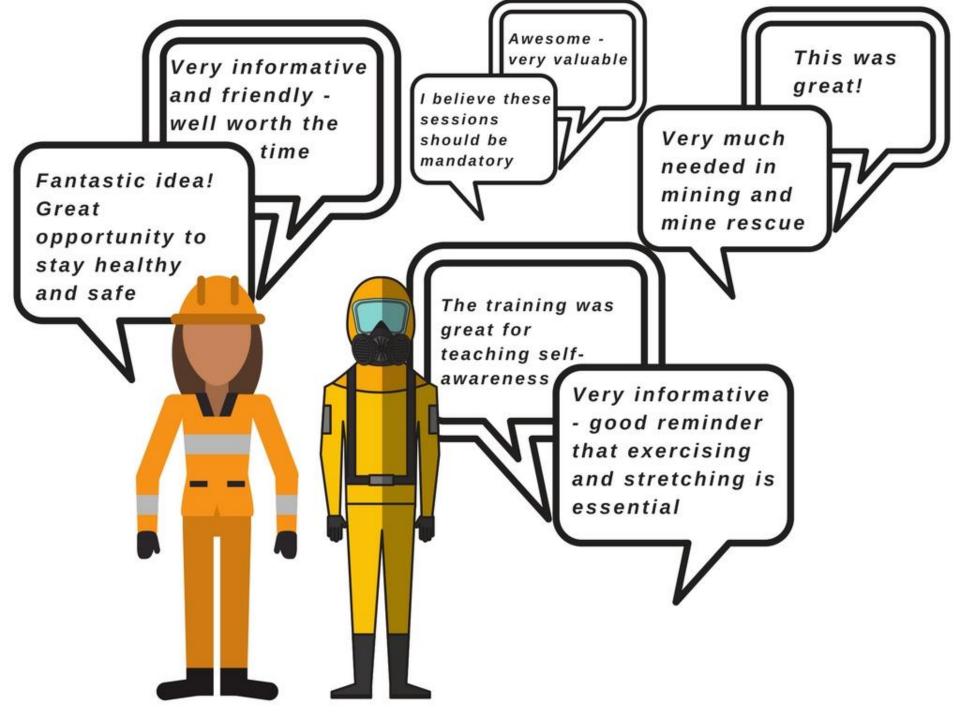
100%

found
the trainers
competent
and
prepared



100%

found
the trainers
competent
and
prepared



"AN ASTRONAUT'S GUIDE TO LIFE"

Nothing boosts confidence quite like simulating a disaster, engaging with it fully, both physically and intellectually, and realizing you have the ability to work the problem. Each time you manage to do that your comfort zone expands a little, so if you ever face that particular problem in real life, you're able to think clearly.

Chris Hadfield



ASK YOURSELF

On an airplane, who's oxygen mask do you put on first?

You have to help yourself, before you can help those around you.



THANK YOU!

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Acknowledgements:

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