# Fit for Duty

PRESENTED TO NEW BRUNSWICK CONSTRUCTION SAFETY ASSOCIATION PROFESSIONAL DEVELOPMENT DAY

## Objectives

▶ Define Fit for duty.

▶ Understand the conditions that make up Fit for Duty.

Review some strategies to address the issues.

#### Before we begin

This presentation is not legal advice and is intended to generate discussion and help you identify potential issues.

## Fit for Duty

What do you think of when we use the term Fit for Duty?

Most people think of Drug and Alcohol Policies and Testing programs.



#### Fit for duty – What does it mean

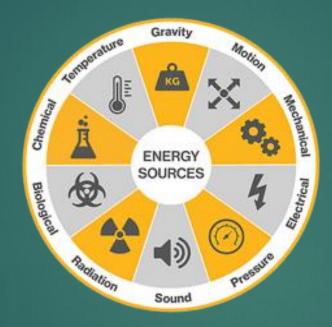
- ► According to the American College of Occupational and Environmental Medicine; Fit for duty means:
  - ▶ Being Fit for Duty means that an employee's physical, emotional and mental condition allow a person to perform essential job duties in a proper, safe and competent manner.

▶ An unfit employee is one who cannot perform those duties according to these standards, regardless of reason.

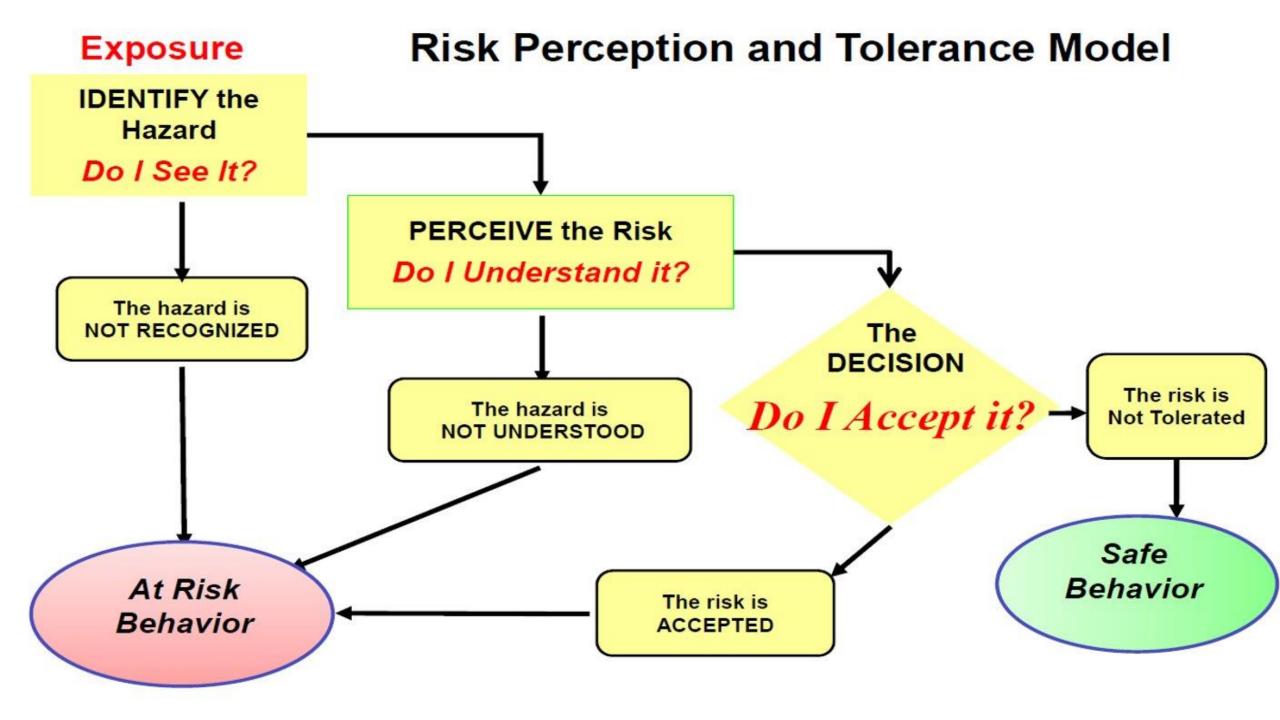


#### Risk Management

Traditionally we think of hazards as seen in the energy wheel



► The conditions we will be discussing are hazards that can lead to risks.



#### Fit for duty

► In 2020, the group at Energy Safety Canada developed a program guideline for Fit for Duty.

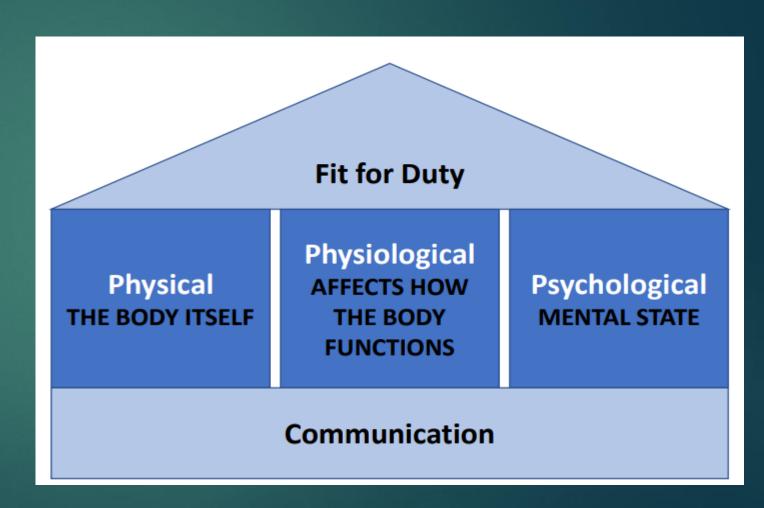
► This presentation will use the information from the guideline to outline the many sides of Fit for Duty.

References are included at the end of the presentation.



#### Fit for duty

Energy Safety Canada developed this model as a comprehensive approach to Fit for Duty.



## Fit for duty "house model"

▶ The "house" is made up of 3 pillars and a base



- ▶ Pillar 1 made up of physical conditions including physical demands, strengths, vision, hearing, etc.
- ▶ Pillar 2 made up of physiological conditions including fatigue, stress, alcohol and drugs, workplace exposures, etc.
- ▶ Pillar 3 made up of psychological conditions making up the workers mental state including commitment, risk tolerance, culture, phobias, fears, etc.
- ▶ The base of the house is communication.

## Pillar 1 – Physical Requirements

- ▶ What are the physical demands of the jobs you have?
- ► Can your employees meet these demands?
- ► How do you know?

Ergonomic Assessment Tool Use		
Type of Task	Ergonomic Assessment Tool	
Lifting / Lowering	WISHA Lifting Calculator or NIOSH Lifting Equation	
Upper Body Posture	Rapid Upper Limb Assessment (RULA)	
Entire Body Posture	Rapid Entire Body Assessment (REBA)	
Pushing / Pulling / Carrying	Snook Tables	
Vibration	Hand-Arm Vibration Calculator	



There are tools available to help you determine if the physical demands are too much.

#### **Lifting Calculator**

Step 1

Find the actual weight of objects the employee lifts. Actual Weight = \_\_\_\_

Step 2

3kgs = 6lbs

5 kg = 11lbs

10kgs=22lbs

20kgs-44lbs

25kgs-55lbs

Determine the Unadjusted Weight Limit. Where are the employee's hands when they begin to lift or lower the object?

Mark that spot on the diagram below.

The number in that box is the Unadjusted Weight Limit in pounds.



Unadjusted Weight Limit = \_\_\_

Step 3

Find the Limit Reduction Modifier. Find out how many times the employee lifts per minute and the total number of hours per day spent lifting. Use this information to look up the Limit Reduction Modifier in the table above.

How many lifts per minute?	For how many hours per day?		
	1 hr or less	1 hr to 2 hrs	2 hrs or more
1 lift every 2-5 mins.	1	0.95	0.85
1 lift every min	0.95	0.9	0.75
2-3 lifts every min	0.9	0.85	0.65
4-5 lifts every min	0.85	0.7	0.45
6-7 lifts every min	0.75	0.5	0.25
8-9 lifts every min	0.6	0.35	0.15
10+ lifts every min	0.3	0.2	0

If the employee twists more than 45 degrees while lifting, reduce the Unadjusted Weight Limit by multiplying by 0.85. This tool is used to calculate the maximum weight that most employees could lift/lower safely, given the variables of the task

To complete the assessment, yo will need: Information about the job,

being evaluated.

- Interview supervisors and workers, and
- Observe workers performing tasks.

If the job involves litting of various objects with several differen weights and/or from a few differ ent locations, we recommend:

- Analyze the two worst case lifts—the heaviest object lifted, and the lift performed in the most awkward posture. (Example: below knees, aboves houtler, and/or farthest reach).
- Analyze the most commonly performed lift, using the frequency and duration for all the lifting done in a typic workday.

Task variables needed to calculate the Weight Limit and Lifting Ind ex when using the Lifting Calculator:

> Weight Vertical Hand Position Horizontal Hand Position Frequency

Duration Twisting

See definitions on next page

#### **Lifting Calculator**

Step 4

Calculate the Weight Limit. Start by copying the unadjusted Weight Limit from Step 2

Unadjusted Weight Limit

X \_\_\_\_\_\_ Limit Reduction Multiplier

= \_\_\_\_\_ Weight Limit

Step 5

Is this a hazard? Compare the Weight Limit calculated in Step 4 with the Actual Weight lifted from Step 1. If the Actual Weight lifted is greater than the Weight Limit calculated, then the lifting is a MSI hazard and must be reduced below the hazard level or to the degree technologically and economically feasible.

Actual Weight =	Weight Limit =

Is corrective action required to reduce risk? YES NO

Plan to reduce risk of MSI Injury:

#### Definitions

- 1) Weight Determine the actual Weight of the object being lifted. Often, you can obtain the weight of the load from labeling on the object or from company production or shipping records. If the weight of the load varies significantly, you should obtain the average and maximum weights lifted.
- 2) Vertical Hand Position –
  Determine the Vertical
  Hand Position of the employee's hands relative to
  the knees, wast, and shoulders of the worker as they
  begin to lift, lower, or place
  the object.
- 3) Horizontal Hand Position

  Determine the Horizontal
  Hand Position by measuring
  the distance between the
  point projected on thefloor
  directly below the midpoint of the hands grasping
  the object (bad center),
  and the mid-point of a line
  between the toes.
- Frequency Determine the average number of lifts per minute of the lifting task being evaluated, this is the lifting frequency.
- 5) Duration Determine the lifting duration as classified into one of three categories: 1) 1 hour or less, 2) 1–2 hours, or 3) 2 hours or more.
- 6) Twisting—Determine the degree to which the body is required to twist or turn during the lifting task. The twisting angle is the amount (in degrees) of trunk and shoulder rotation

### Pillar 2 – Physiological Conditions

Fatigue

Stress

► Alcohol and drugs

Workplace exposures



#### Fatigue

Fatigue is often thought of as the state of feeling very tired, weary or sleepy resulting from various sources such as insufficient sleep, prolonged mental or physical work, or extended periods of stress or anxiety.





#### **Stress**

► As stated by the Canadian Mental Health Association:

Stress is a reaction to a situation – it isn't about the actual situation.

► We usually feel stressed when we think that the demands of the situation are greater than our resources to deal with that situation.

Coping Skills

Talk to someone

#### Drugs and Alcohol

- ► Typically, the most widely known issue for Fit for duty.
- ▶ Different drugs have different impacts.
- More dangerous drugs circulating.

Drug testing





DRIVING

## Effects of Drugs on the Body and Driving

Slows driving

Sedatives

benzodiazepines.

depressants.

sleep medications

Causes jerky eye

movements &

slurred speech

Impairs judgement &

lowers inhibitions

Confuses &

Impairs motor coordination &

Decreases

attention

attentiveness &

ability to divide

slows reaction time

disorients

#### Marijuana **Stimulants** Opioids cocaine, oxycodone, heroine, methamphetamine Street Name pot, weed coke, meth oxy, sticky, smack Constricts pupils & Dilates pupils Impairs coordination & causes droopy Causes body Effects on balance evelids shakes & increases the BODY Reddens eyes & talkativeness Lowers heart rate & dilates pupils breathing and BRAIN Causes restlessness. Distorts perception agitation & Causes drowsiness of time & space nervousness Slows reaction time Reduces driver Slows reaction time balance and · Reduces ability to Impairs short-term coordination divide attention & memory & Effects on concentration Reduces impulse follow instructions

control

taking

Increases risk

Causes driver to

vary speed &

to wander

#### Workplace Exposures

► There are a variety of exposure related hazards that exist in our workplaces today including:

- ► Chemical Exposures
- ► Biological Exposures
- Physical Health Hazards (i.e., Radiation, Noise, Asbestos, etc)

Education

Risk Assessments

#### Pillar 3 – Psychological Conditions

► Violence and Harassment

Distractions

► Human Error

The Mental Health Commission of Canada states that about 30 per cent of short- and long-term disability claims in the country are attributed to mental health problems and illnesses. The overall economic burden caused by mental illness in Canada totals about \$51-billion each year, and a staggering \$20-billion of that stems from workplace losses. A study by the MHCC estimated that the cumulative cost of mental health over the next 30 years is expected to be more than \$2.3-trillion.



#### Violence and Harassment

There is no place for violence or harassment in today's workplace, but it still happens.

#### What is workplace harassment?

The regulation defines workplace harassment as any behaviour that is known or should be expected to be known to be unwelcome that would demean, embarrass, humiliate, annoy, alarm or threaten an employee's health and safety. This can be on a one-time or repeated basis, and includes sexual harassment.

In every workplace, however, conflicts can arise that may be unpleasant, but do not escalate to the point of bullying or harassment. Differences of opinion or minor disagreements are not generally considered to be workplace harassment.

Developing Workplace Violence and Harassment Codes of Practice



#### What is workplace violence?

Workplace violence is defined as the attempted or actual use of physical force against an employee, or any threatening statement or behaviour that gives an employee reasonable cause to believe that physical force will be used against the employee, and includes sexual violence, intimate partner violence\* and domestic violence

#### Distractions

► Traditionally we talk about distractions being external like cell phones or headphones.

NB Power created a campaign on wellness based on research of the 40 − 10 − 50 model

Look for signs of distraction

"Up your 10"

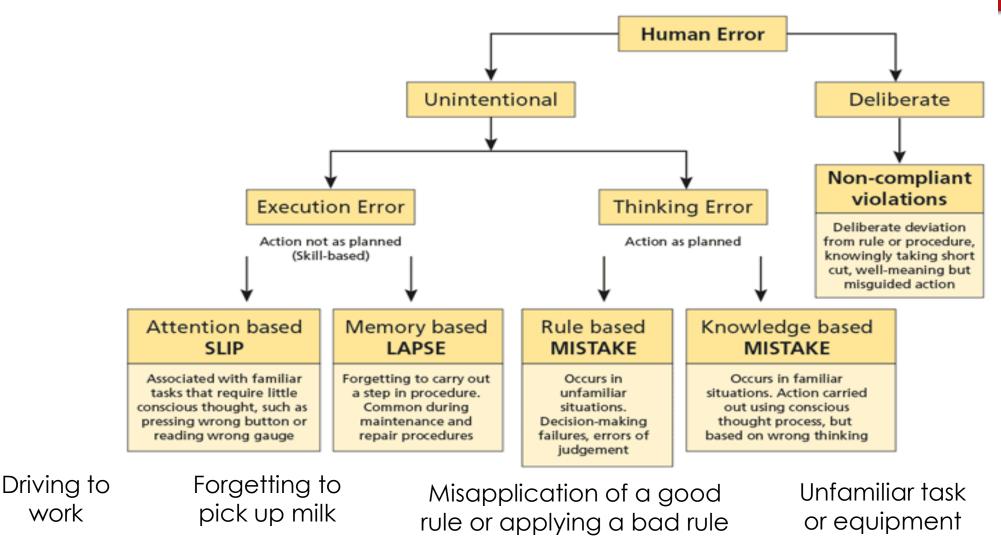


#### **Human Error**

- ► There are different types of Human Error:
  - ▶ Skill Based or Action / Execution Errors Slips and Lapses.
  - ▶ Decision Based or Thinking Errors Rule Based, or Knowledge Based.
  - ▶ Non-compliance Routine, Situational or Exceptional.

#### **Human Error Model**

work



#### **Human Error**

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  - ► Skill Based or Action Errors Slips and Lapses.
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Action Errors are not intended, so training will not help

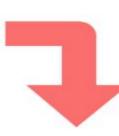
Diagnostic tools and Organizational Learning

## PSYCHOLOGICAL DANGER

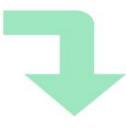
PSYCHOLOGICAL SAFETY



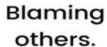
Fear of admitting mistakes.



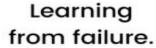
Comfortable admitting mistakes.



Allowing group dynamics to affect decision making.

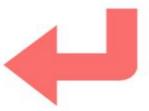


Better innovation and decision making.

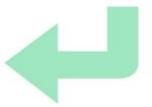




Team members are less likely to share different views.



Everyone openly shares ideas.



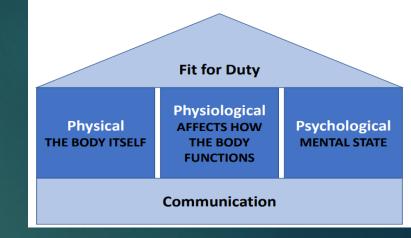


Where is your organization



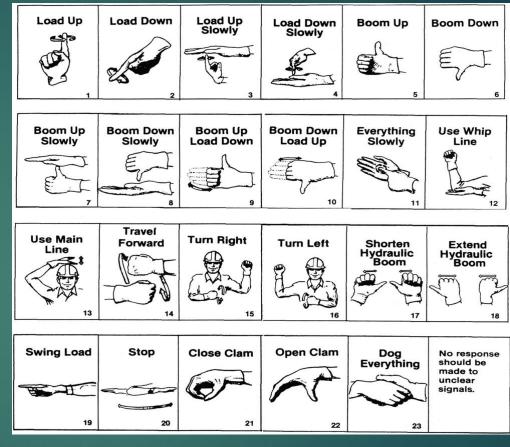
#### Communication

- ▶ Communication is the foundation.
- Often seen as a causal factor in many safety incidents.
- **▶** Communication attributes:
  - ▶ Ability to Communicate.
  - ► Common Language and Understanding.
  - ► Signs and Symptoms



#### **Ability to Communicate**

- ► Language barriers.
- Written communication.
- ► Hand Signals.



Understand where barriers exist

Education on signals

## Common Language

A/C

► Industry Jargon and Acronyms

Ground

Language differences

Pipe





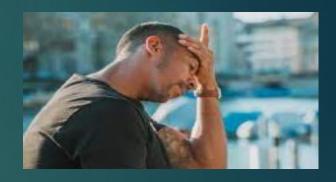
Understand where barriers exist

Teach common terms

## Signs and Symptoms

- ▶ Do you know what to look for in an unfit worker?
- ▶ Do you have a plan when someone is found to be unfit?





Understand what impairment looks like

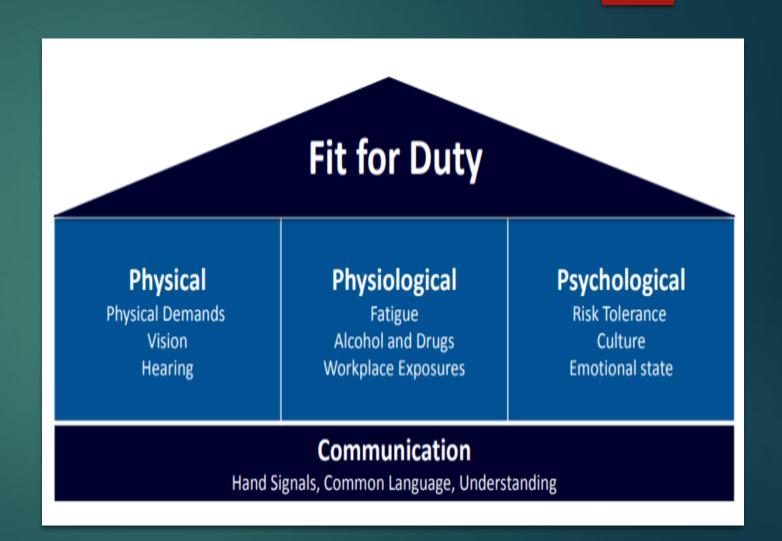
Have a plan

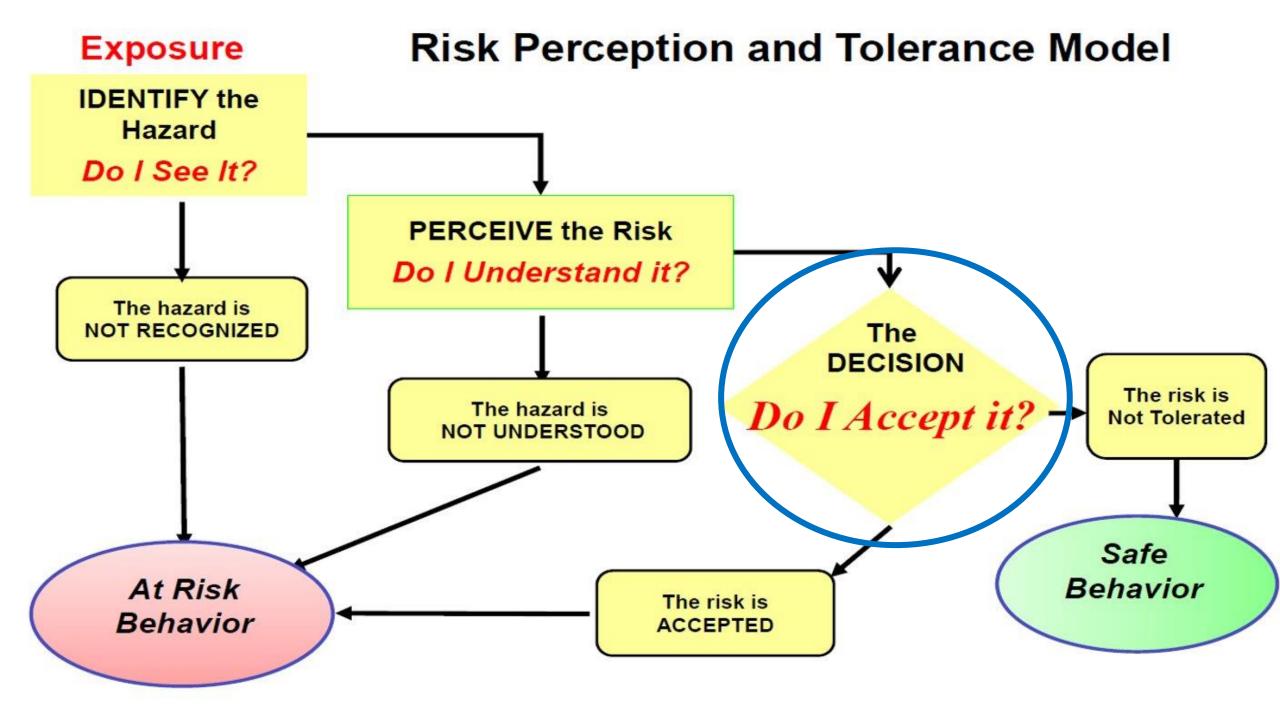
#### Fit for duty "house model"

► Fit for duty is more than Drugs and Alcohol.

► Understand where you have these hazards.

Develop a plan to address the conditions.





# Thank You

# Questions, comments, thoughts

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#### References

- ▶ <a href="https://ohguides.acoem.org/04-fitness-for-duty-introduction/">https://ohguides.acoem.org/04-fitness-for-duty-introduction/</a> AMERICAN COLLEGE OF OCCUPATIONAL AND ENVIRONMENTAL MEDICINE.
- ► https://www.energysafetycanada.com/Resource/Guidelines-Reports/Fit-For-Duty ENERGY SAFETY CANADA
- ► <a href="https://www.safemanitoba.com/News/Documents/B4%20-%20Fit%20for%20Duty%20Physically,%20Mentally%20and%20Emotionally%20Ready%20to%20Do%20Your%20Job%20%20-%20Michael%20Pogorzelec.pdf">https://www.safemanitoba.com/News/Documents/B4%20-%20Fit%20for%20Duty%20Physically,%20Mentally%20and%20Emotionally%20Ready%20to%20Do%20Your%20Job%20%20-%20Michael%20Pogorzelec.pdf</a> WORKSAFE MANITOBA PRESENTATION ON FIT FOR DUTY
- ► <a href="https://www.ccohs.ca/oshanswers/psychosocial/fatigue.html">https://www.ccohs.ca/oshanswers/psychosocial/fatigue.html</a> CANADIAN CENTER FOR OCCUPATIONAL HEALTH AND SAFETY WEBSITE
- https://cmha.ca/brochure/stress/- CANADIAN MENTAL HEALTH ASSOCIATION
- https://in-scope.ca/wp-content/uploads/2021/10/Understanding-How-Fatigue-Impacts-Your-Workpla.pdf IN-SCOPE PRESENTATION ON FATIGUE
- ▶ Managing Mental Heath Risk and Supporting Mental Health Course UNB College of Extended Learning Dr. Bill Howatt
- ▶ NB Power presentation You don't need a better hard hat Duff Boyd and Dr. Shelly Parker
- Distraction Video WorkSafeBC
- ► Human Error Model James Reason 1991
- https://www.linkedin.com/pulse/my-top-5-tips-build-psychological-safety-kate-cousens-she-her- 5 Top Tips to build Psychological Safety Kate Cousens LinkedIn