

desired OUTCOMES

- Understand some primary causes of errors and how errors compound to create incidents
- Work together to assess the source of errors common with large groups
- Learn risk management tools for working with large groups



Hazards vs Risks

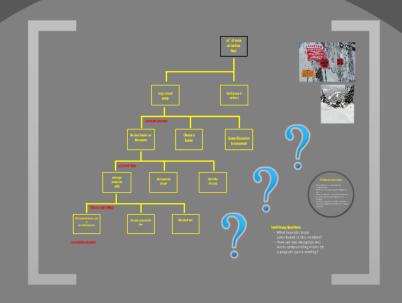
Hazards: Exist regardless of our choices and actions

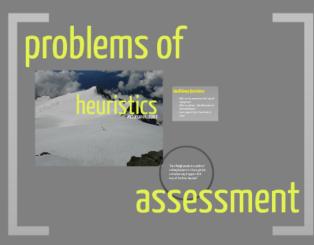
Risks: Are the result of our choices and actions







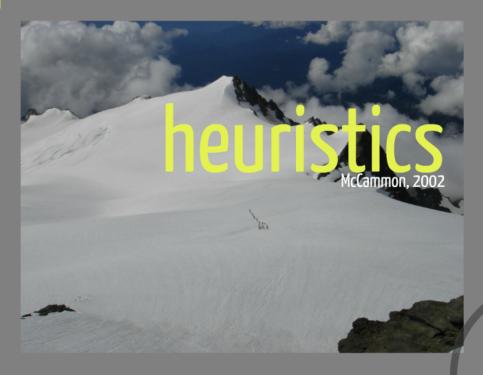








problems of



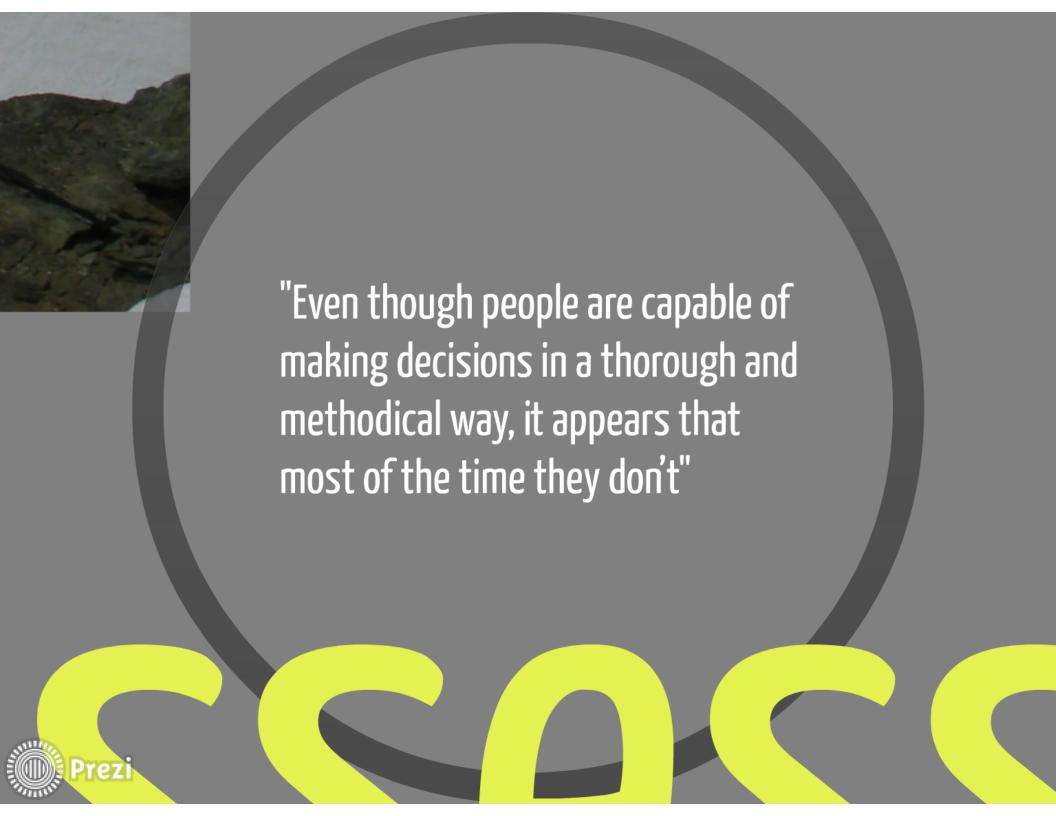
- large groups? What are common "cultural" heuristics of the mountaineers?

"Even though people are capable of making decisions in a thorough and methodical way, it appears that most of the time they don't"

assessment







Small Group Questions:

- What are the common heuristic traps of large groups?
- What are common "cultural" heuristics of the mountaineers?
- How can you mitigate these heuristic traps?



problems of mis-alignment

\$ to donate blood

Ken O'Brien (NFL QB) - financial penalty for each interception

AT&T pays programmers by line of code

You get to go on more advanced trips the more summmits you've completed

less blood donated

fewer passes made

unnecesarily long programs

? competing incentives

personal vs. institutional



problems of mis-alignr

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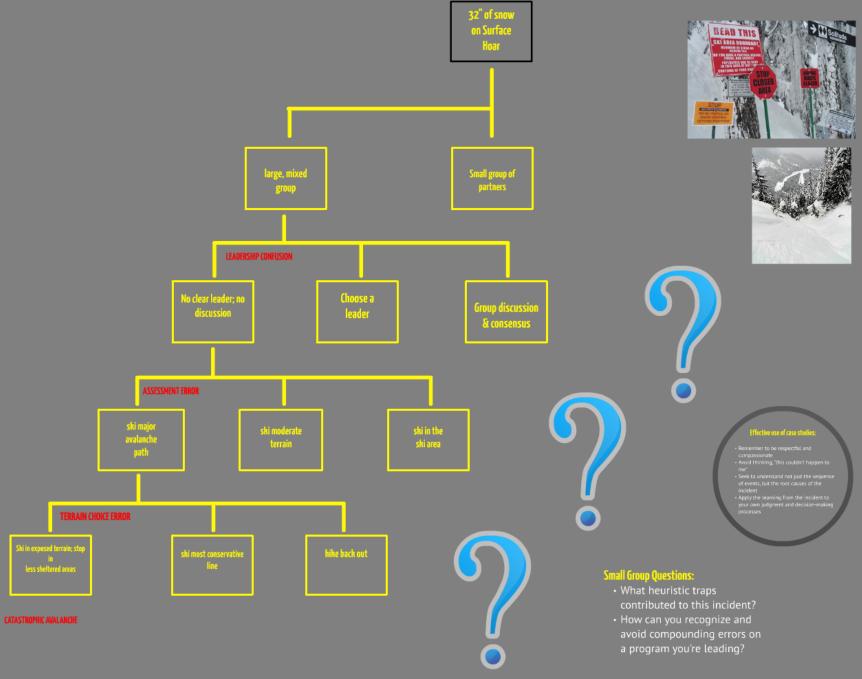
unnecesarily long programs

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personal VS. institutional





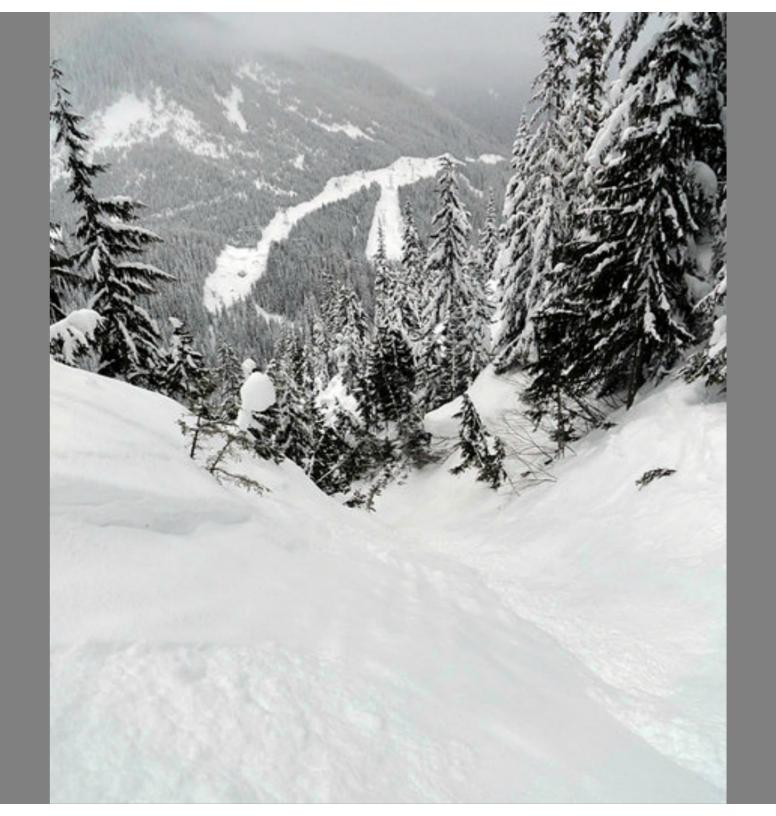


Effective use of case studies:

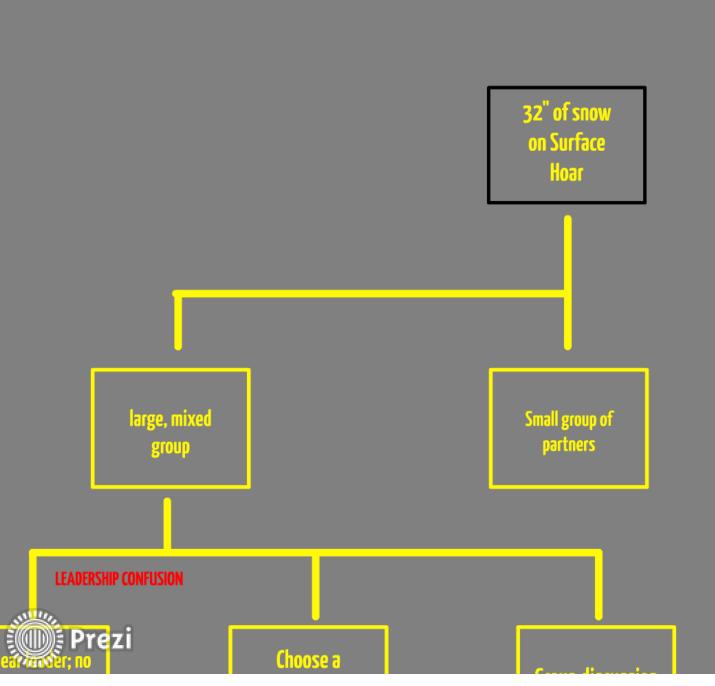
- Remember to be respectful and compassionate
- Avoid thinking, "this couldn't happen to me"
- Seek to understand not just the sequence of events, but the root causes of the incident
- Apply the learning from the incident to your own judgment and decision-making processes





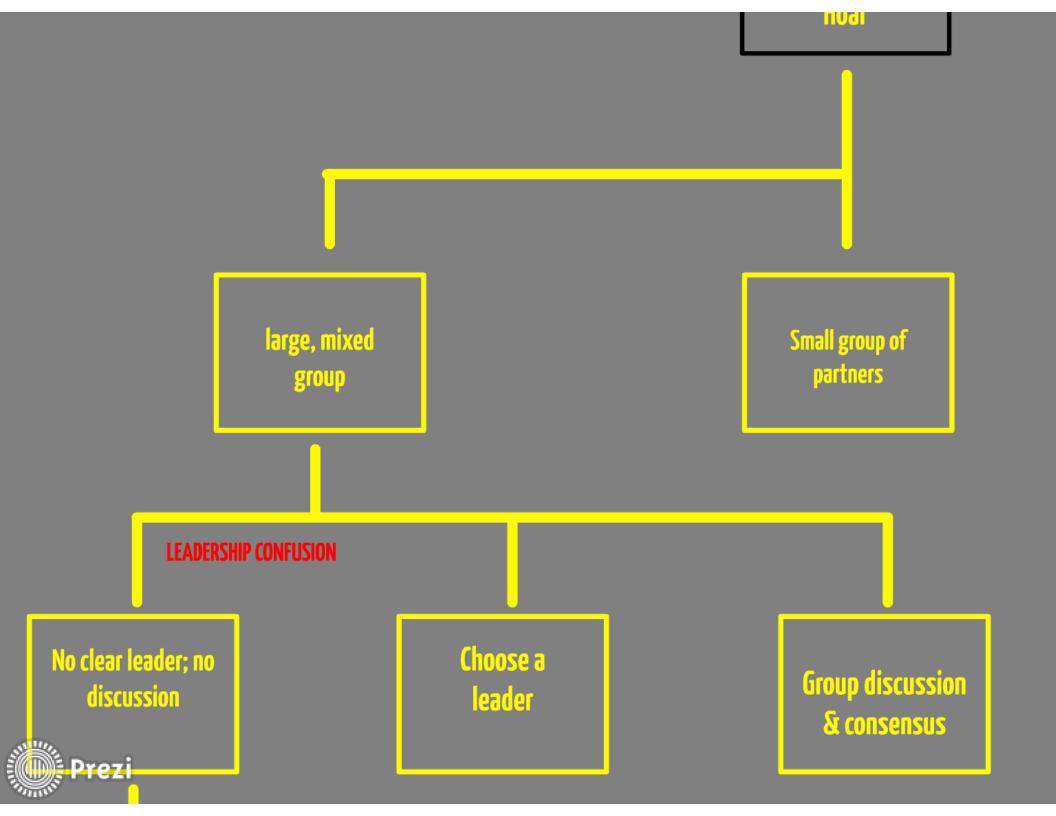


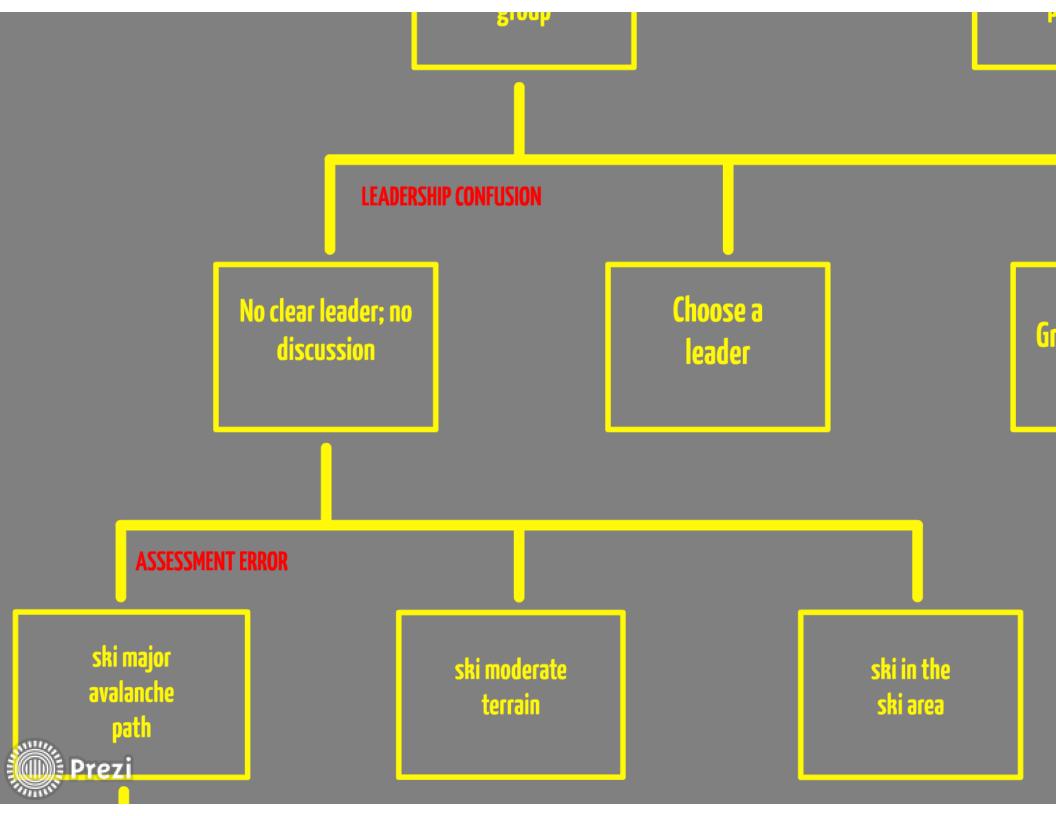
Prezi

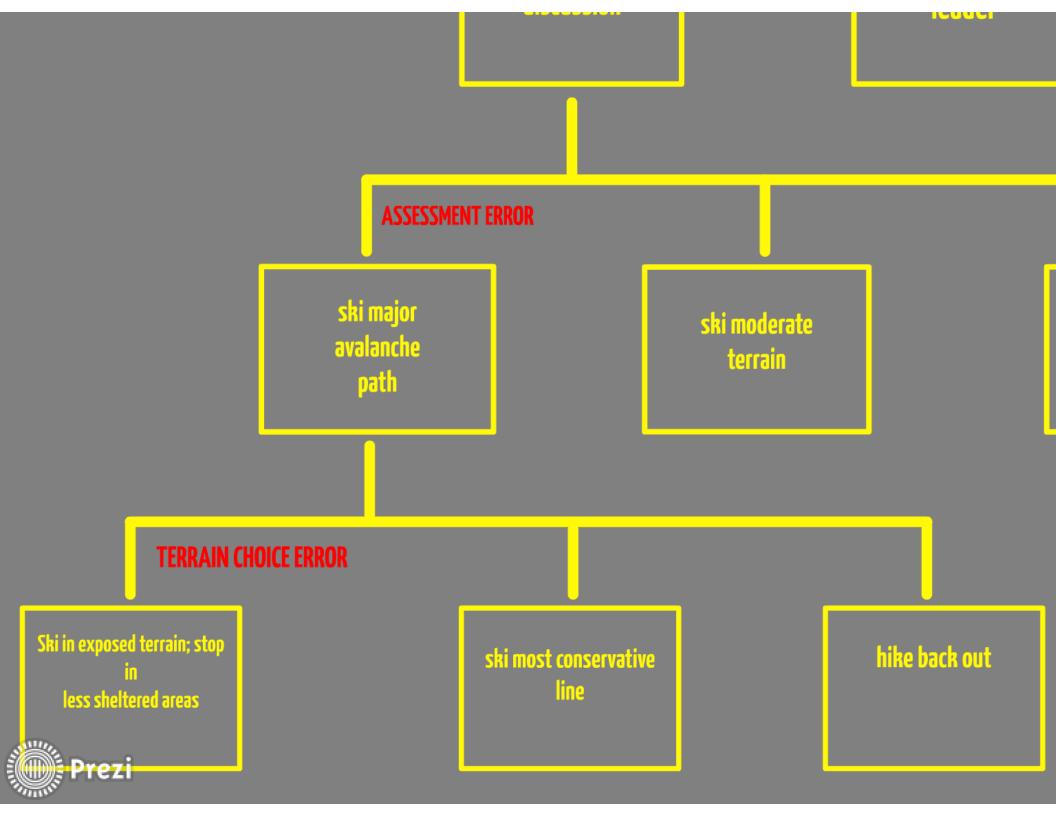












TERRAIN CHOICE ERROR

Ski in exposed terrain; stop in less sheltered areas

ski most conservative line

hike back out

CATASTROPHIC AVALANCHE



Small Group Questions:

- What heuristic traps contributed to this incident?
- How can you recognize and avoid compounding errors on a program you're leading?



Tools for Managing Large Groups

objective-based planning

- Why are you travelling in large groups?
- How many is too many?
- How are you choosing your objective?
- How are you choosing participants?

Managing **PEOPLE** or Managing **TERRAIN**?



- do you need a pully in your glacier kit?
 what do you do when there is thunder & lightning?
 can you climb with a single 1/2 rope? In what applications?
 what must you bring on a summit climb?
 how do you protect yourself when setting up a toprope at a cliff adda? a cliff edge?
 - what first aid certification do you need?

assessing competency



Personal vs. Institutional Risk Tolerance Institutional Language Institutional Practices





objective-based planning

- Why are you travelling in large groups?
- How many is too many?
- How are you choosing your objective?
- How are you choosing participants?





Man

(Re) Assessment

- What is your self-assessment? Is it accurate?
- What is your assessment of your participants? Is it complete? Is it accurate
- What is your assessment of the environment and/or route?
- How do you communicate these assessments between leaders and within the group?

Design Your Activity

- Site / Route Selection
- Group Size
- Leader Competencies
- Participant Ability Leve
- Framing and Closing the Activit
- Instructor Positioning

Desired Outcomes

- What are the organization's outcomes?
 "Our mission is to enrich the community by helping people explore, conserve, learn about and enjoy the lands and waters of the Pacific Northwest and beyond."
- What are the leader's desired outcomes
- What are the participant's desire outcomes?



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I would.			
scenario		possible actions	, —
setting top rope anchors for a group that requires traversing 5.0 terrain with 30 feet of expanare	set the anchers up efficiently. Don't fall.	clip a bother to the first ancher and traverse to remaining anchors	set up a rappel from above with a third hand backup, which takes 30 additional minutes
Mt. Rainier, B.C. rootedescending late, get to Dunis Rall which looks wind looded	Cross 1 person at a time with spotter	2 most experienced dig a hasty pit and assess avolunche bassed. Cross if decored stable	Camp at Ingraham Flats, seassess in the morning, Get home 1 day late
Bosten Basin / Furbiddenjust below the unnumed glacier, a participant is feeling too tired to continue at the pace	Send participant back down the way we care up to wait in camp	Send participant back dwwn accompanied by a stronger group member	slow the pace to knop the group together at the rish of not completing the climb



the Mountaineers should...

I would...

the Mountaineers will probably...

scenario

——— possible actions -

setting top rope anchors for a group that requires traversing 5.0 terrain with 30 feet of exposure

set the anchors up efficiently. Don't fall.

clip a tether to the first anchor and traverse to remaining anchors set up a rappel from above with a third hand backup, which takes 30 additional minutes

Mt. Rainier, D.C. route...descending late, get to Dunn's Roll which looks wind loaded

Cross 1 person at a time with spotter

2 most experienced dig a hasty pit and assess avalanche hazard. Cross if deemed stable

Camp at Ingraham Flats, reassess in the morning. Get home 1 day late

Boston Basin /
Forbidden...just below the unnamed glacier, a participant is feeling too tired to continue at the pace

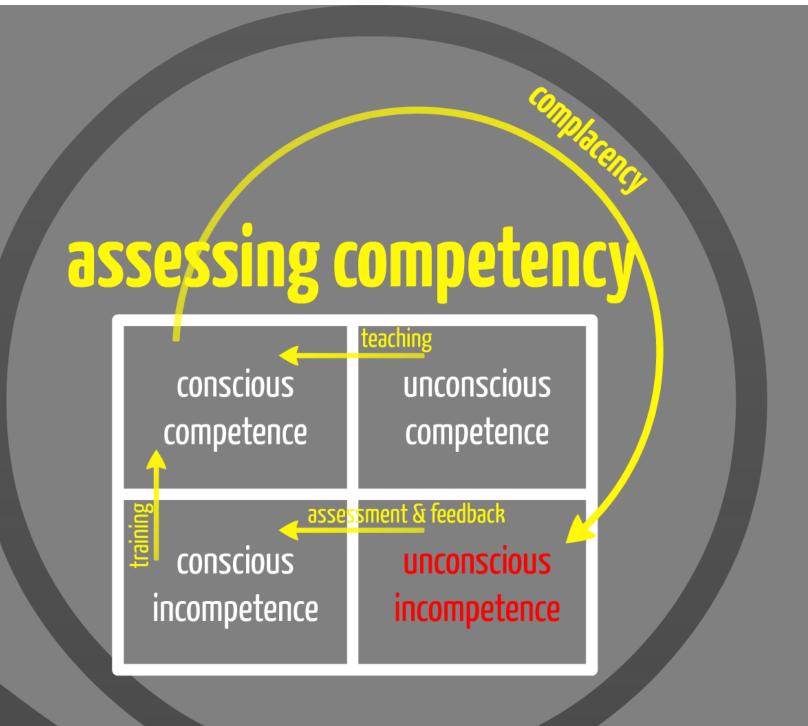
Send participant back down the way we came up to wait in camp Send participant back down accompanied by a stronger group member slow the pace to keep the group together at the risk of not completing the climb



what are your institutional consistencies?

- do you need a pully in your glacier kit?
- what do you do when there is thunder & lightning?
- can you climb with a single 1/2 rope? In what applications?
- what must you bring on a summit climb?
- how do you protect yourself when setting up a toprope at a cliff edge?
- what first aid certification do you need?







Managing PEOPLE or Managing TERRAIN?



individual reflection

- As a Mountaineers Leader / Trainer, what will you do to avoid heuristic traps and compounding errors?
- How will you design trips that meet clear objectives?
- How will you accurately assess yourself and co-leaders and



