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Ground Rules

- Bruce is not the expert as a group we are the expert
- Please interrupt with comments and questions
- Questions will be posed to the group. Please do not be afraid to raise your hand with your answer - this is not meant to be judgmental but to increase awareness of common misunderstandings
- Bruce will choose the first person and that person choose the next (cannot be Bruce or the person who chose them)



Agenda

- Basics of Confined Spaces
 - What it is?
 - What is entry?
 - What makes something permit required?
- Unique hazards (confined spaces and rescue)
- What do you really know (urban legends)
 Time Permitting



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WHAT IS CONFINED SPACE

A confined space is an area large enough and so configured that an employee can enter bodily and perform their work

AND

A confined space has a limited or restricted means of entry or exit

AND

A confined space is not designed for continuous human occupancy.

To be considered a confined space, all three conditions must exist



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Bodily Enter vs. Breaking the Plane of Entry

Bodily entry

- Whole body
- Can perform work





- Intentional act
- Any part of the body
- May have an exemption for inspection if accidental entry cannot occur.



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Two Options for Entering Confined Spaces:

- Permit-required confined space entry
 - For hazardous or potentially hazardous confined space work
- Non-permit confined space entry
 - ➤ For nonhazardous confined space work



Unique Confined Space Hazards

- The following slides are examples of hazards that may not be obvious.
- This is not intended to be a comprehensive list.
- Feel free to add in personal experiences, comments or ask questions about each situation.



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Excavations

- Utilities
- Oxygen
- ▶ Cave-in
- Equipment
- Asphyxiation
- Explosion
- Rescue
- Retrieval



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Sewers

- Storm water vs. sanitary
- Oxygen
- Biologicals
- Isolation
- Hazardous atmosphere
- Explosion
- Engulfment
- Horizontal Movement
- Rescue
- Retrieval







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Secure Facilities

- Depth of dual cover
- Weight of cover
- Emergency response











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Elevated Structures

- Fall protection
- Retrieval system
- Rescue team position
- Lowering of victim
- Training





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Horizontal Entry (short)

- Physical hazards heat, sharp edges
- Retrieval
 - Harness?
 - Winch?
 - Anklets/Wristlets



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Rescue vs. Retrieval

- Rescue can be either
 - Entry
 - Non-entry
- Retrieval can only be
 - Non-entry
- Rescue Training (10,000' view)
 - Annual
 - Hands-on
 - Specific to type of rescue
 - Additional trainings (respiratory protection, CPR, etc.)



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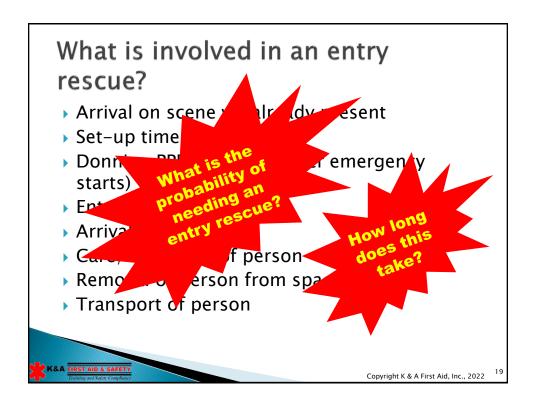
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What is involved in an entry rescue?

- Arrival on scene vs. already present
- Set-up time
- Donning PPE (before or after emergency starts)
- Entry
- Arrival at person
- Care/Packaging of person
- Removal of person from space
- Transport of person



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Retrieval

- One person?
- Stability of tripod
- Limited space
- Unconscious person
- Disconnection from tripod
- Multiple retrievals
- Fall protection



Urban Legends (Time Permitting)

- The following slides will be interactive.
- Let's see how smart we are as a collective



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A permit is required to enter all confined spaces

- True
- False



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A designated rescue team is NOT always required when entering a permit required confined space (construction)

- True
- False



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A designated rescue team is NOT always required when entering a permit required confined space (general industry)

- True
- False



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A permit required confined space can be reclassified as non-permit required but a non-permit required space can not be reclassified as permit required.

- True
- ▶ False



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Permits are never permitted to be extended or suspended.

- True
- ▶ False

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The supervisor cannot be the attendant

- True
- False



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All permit required confined spaces must be labeled.

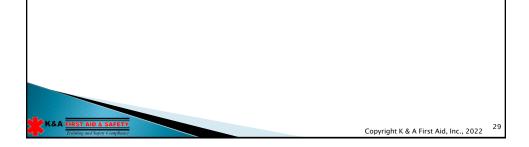
- True
- False

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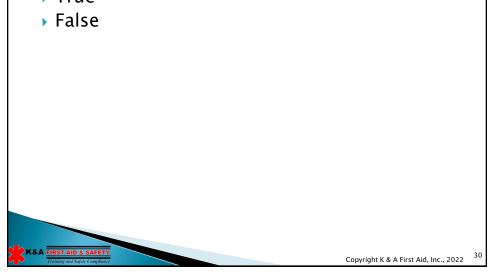
You are not permitted more than 4 entrants in a PRCS. True

- False



An underground storage vault is a confined space

▶ True



The atmosphere in a confined space can <u>never</u> change in less than 10 seconds

- True
- False



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