	<b>Safe Operating Practice</b>	<b><i>Kinosoo Sit Ski Evacuation</i></b>	
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## DESCRIPTION

*This SOP is intended to be a part of the larger Kinosoo chairlift evacuation plan, and fill in for this process while the larger area plan is under review and revision. Safe rescue of persons with mobility restrictions and their associated equipment is crucial during a lift breakdown/manual evacuation scenario. This SOP is to be used for real world scenarios, tabletop drills/exercises, and on-hill training sessions.*

## TRAINING REQUIREMENTS


- On-site ropeway evacuation training
- On-site sit ski ropeway evacuation training
- Overview of sit ski and rescue equipment

## SAFETY EQUIPMENT REQUIRED

- Warm winter clothing (boots, hat, mitts/gloves, scarf, coat, etc.)
- Helmet
- Work gloves

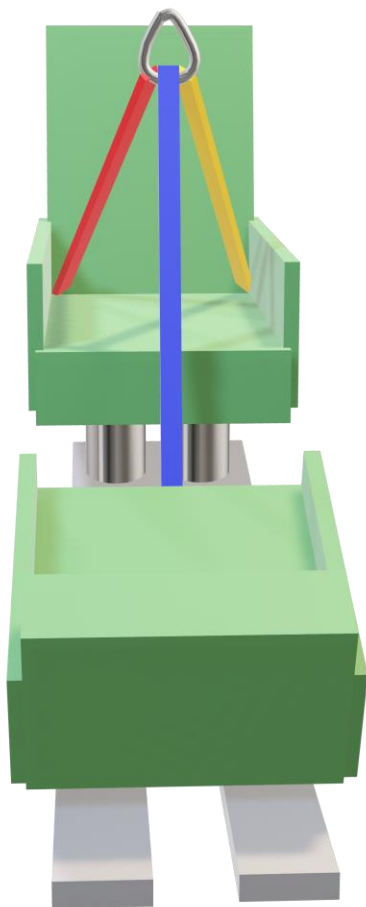
## RESCUE GEAR REQUIRED

- Snowmobile, Quad, or SidexSide
- Pilot line launcher (slingshot in this SOP)
- Pilot line
- Climbing helmets
- Evacuation bag marked for sit ski rescue (#1, 2, 3 and 4)
  - Sling
  - Carabiners
  - Rescue rope with rope saver
  - Rescue “T” seat
  - Belay device

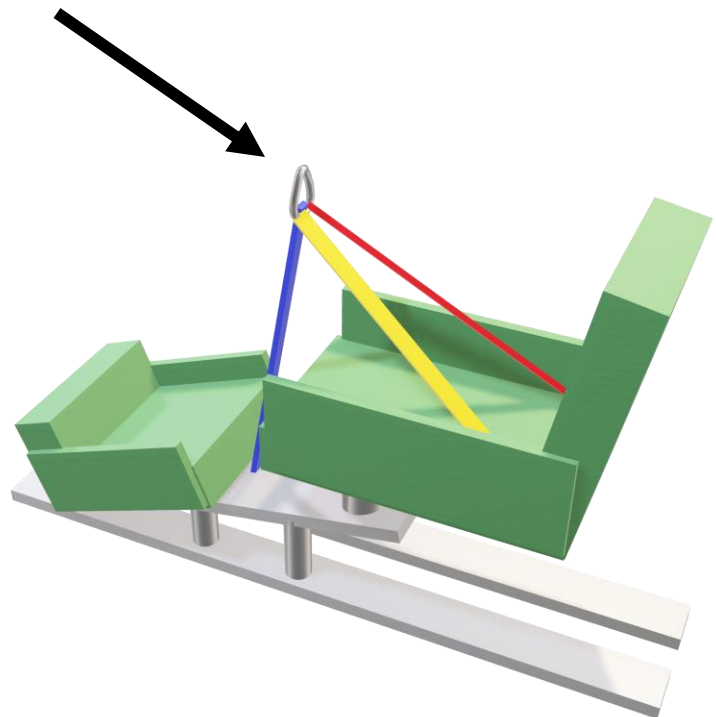
 <b>MUNICIPAL DISTRICT</b> <b>BONNYVILLE NO. 87</b>	<b>Safe Operating Practice</b>	<b><i>Kinosoo Sit Ski Evacuation</i></b>	
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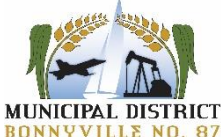
## GUIDELINES

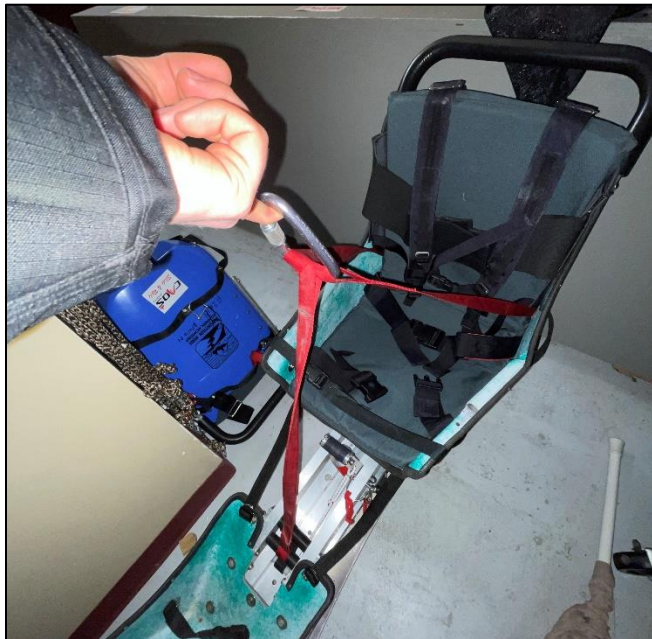
### 1 – Sit Ski Overview



**LEFT HAND STRAP**  
**CENTER STRAP**  
**RIGHT HAND STRAP**  
**CARABINER**



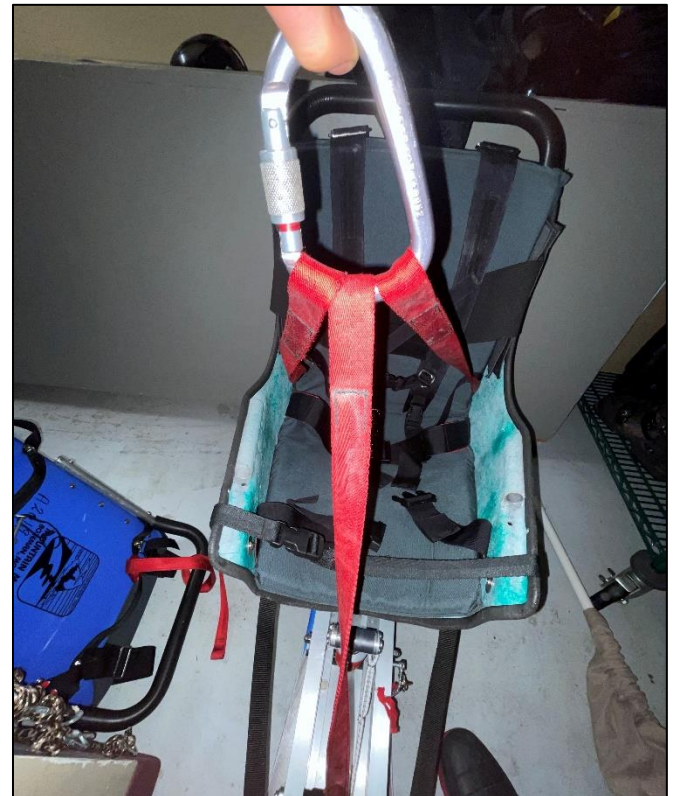
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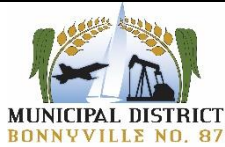


Notice how the straps sit in the carabiner a certain way, they do not overlap, cross, or twist

The loop in the end of the rescue rope should be the only thing holding the carabiner

Two carabiners should NOT be joined, if there happens to be one already at the end of the rescue rope





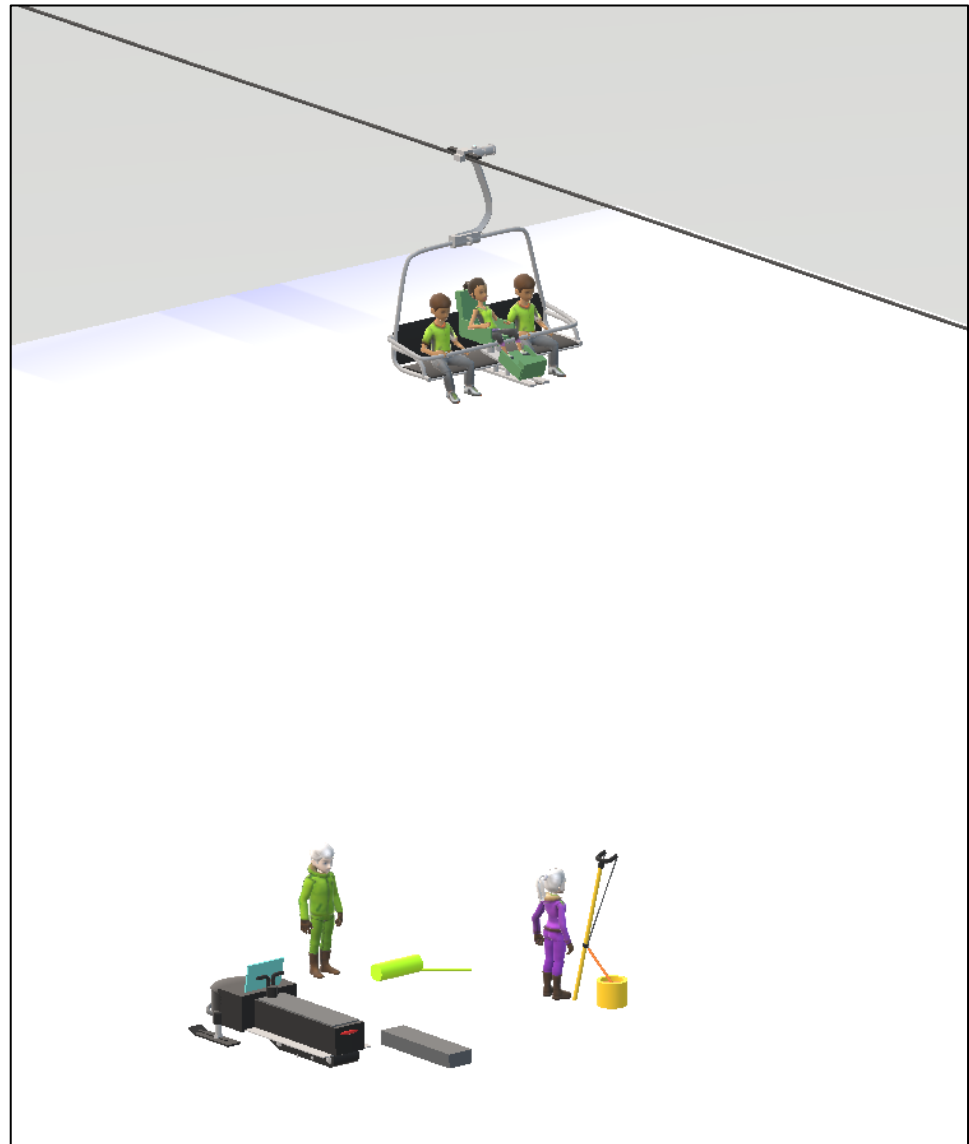
## Safe Operating Practice


## Kinosoo Sit Ski Evacuation

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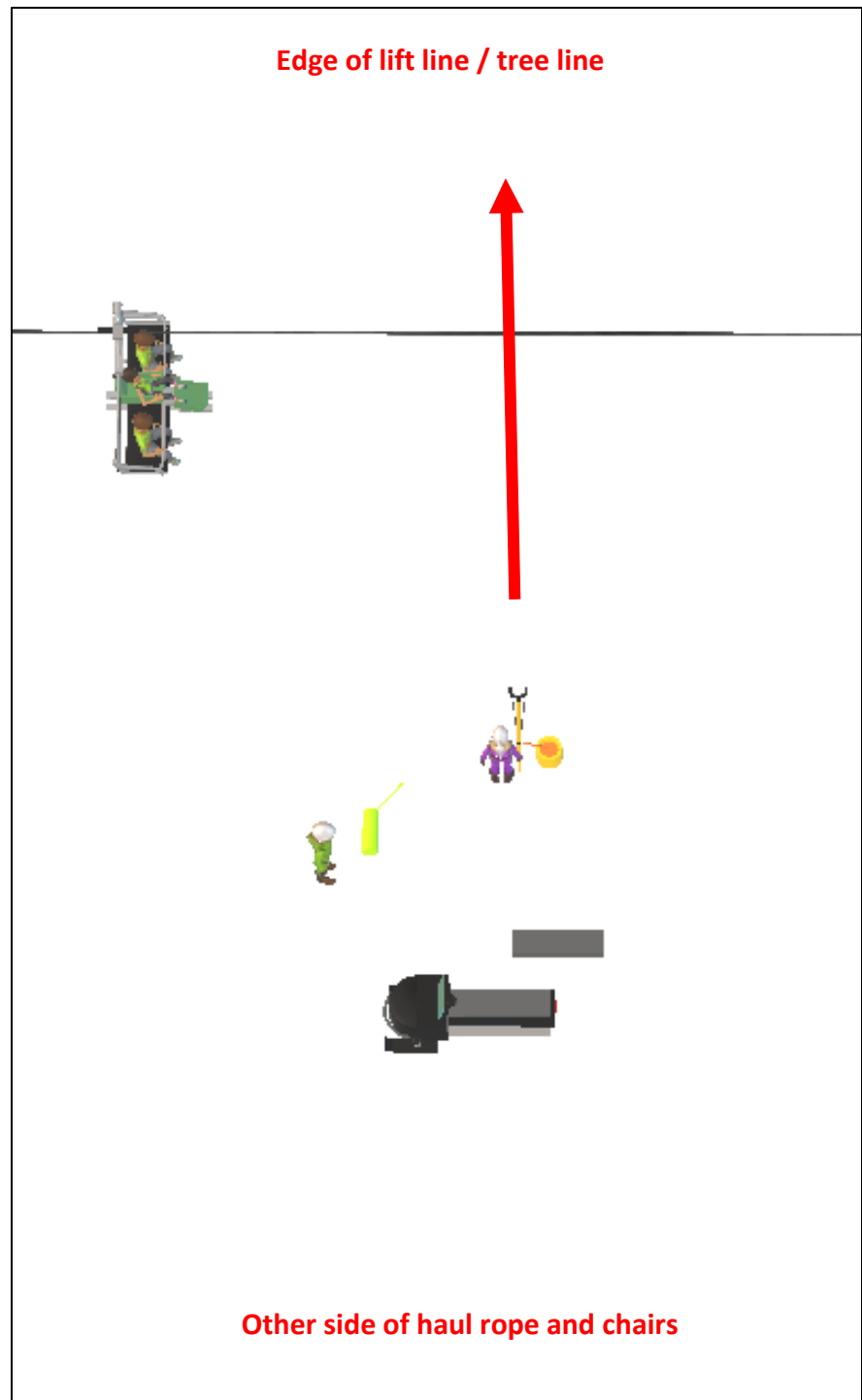
### 2 – Rescue Setup


1. Evacuation gear and teams are deployed per the larger area plan, lift is confirmed locked out and secure, keys are held by the incident commander
2. Belay team approaches chair and prepares and places a machine for the anchor adjacent to the chair
3. One person begins preparing the rescue rope and belay rig
4. One person prepares the line launcher, and prepares to launch bean bag over the chairlift haul rope, **FACING THE EDGE OF THE LIFT LINE**
5. Communication with the patrons begins, ushering them to remain calm, the situation is safe and under control



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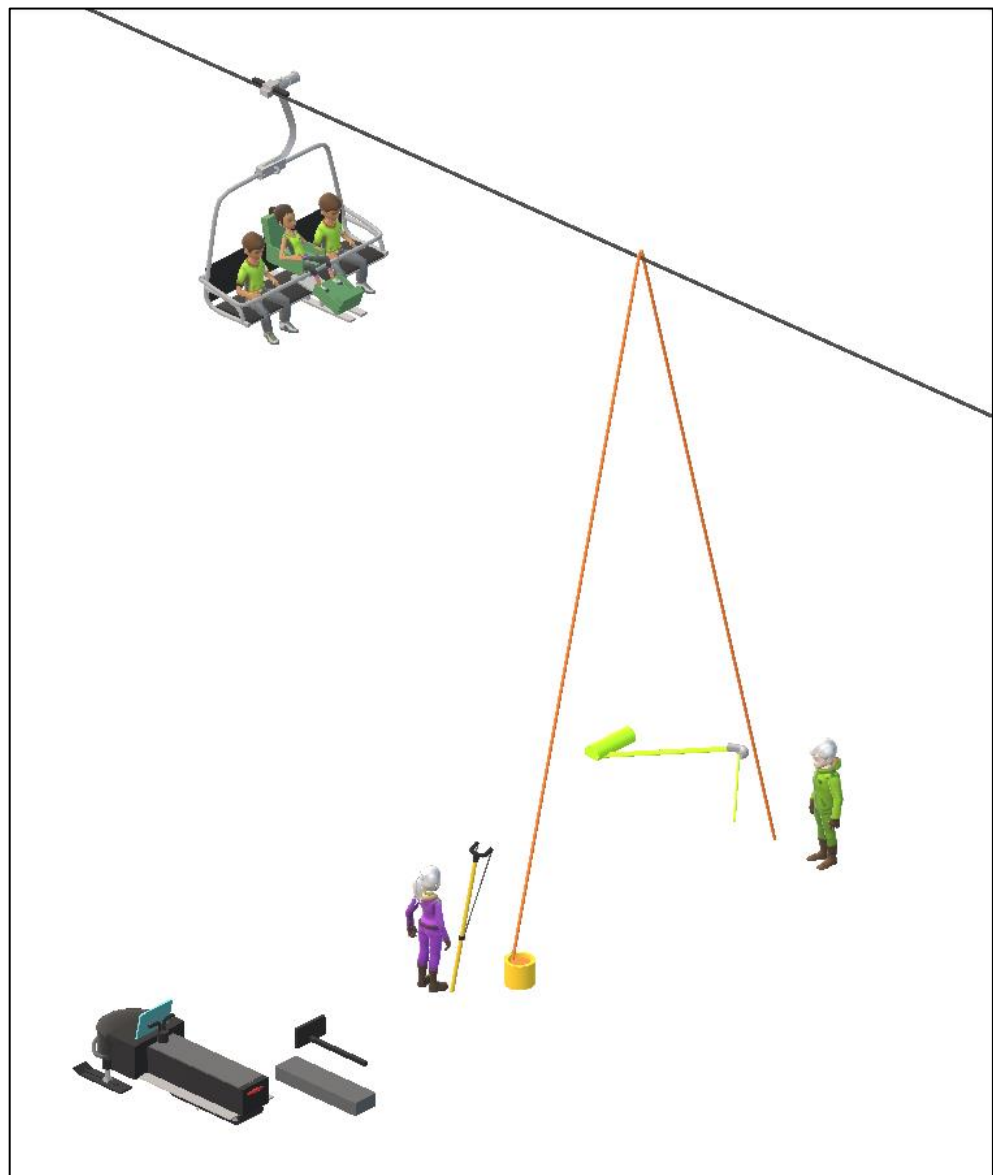
It is key to launch the bean bag towards the edge of the lift line, away from the other side of the haul rope and chairs, to prevent entanglement and wasted time



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### 3 – Launch Bean Bag and Pilot Line

1. Bean bag and pilot line are launched over the haul rope using the line launcher
2. The rescue rope is laid out and prepared
3. The slack end of the rescue rope is tied to the pilot line





## Safe Operating Practice

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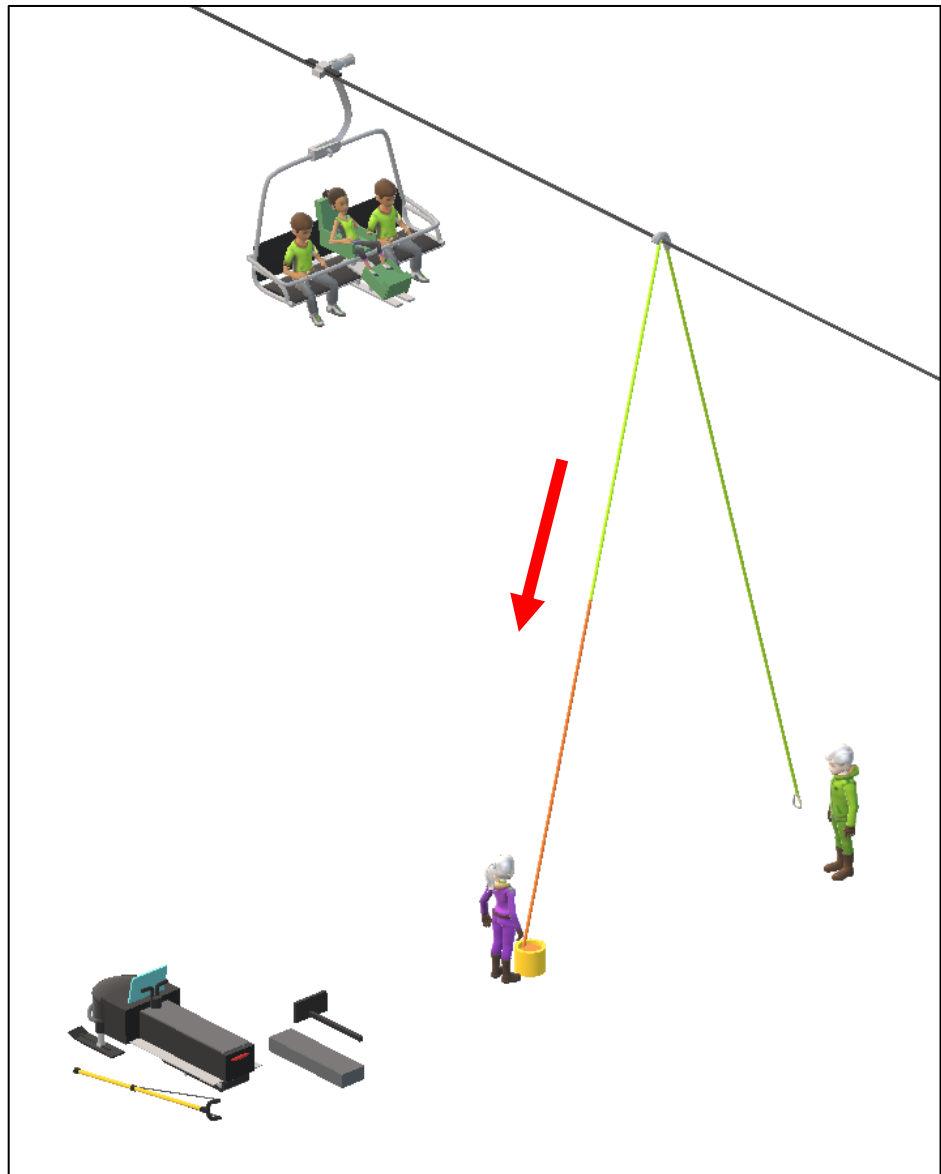
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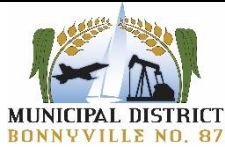
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### 4 – Pull Rescue Rope Over, Ensure Rope Saver on Haul Rope

1. The pilot line is pulled back over the haul rope, bringing the rescue rope with it
2. Flick the metal rope saver over the haul rope, this will protect the rescue rope during the rescue process







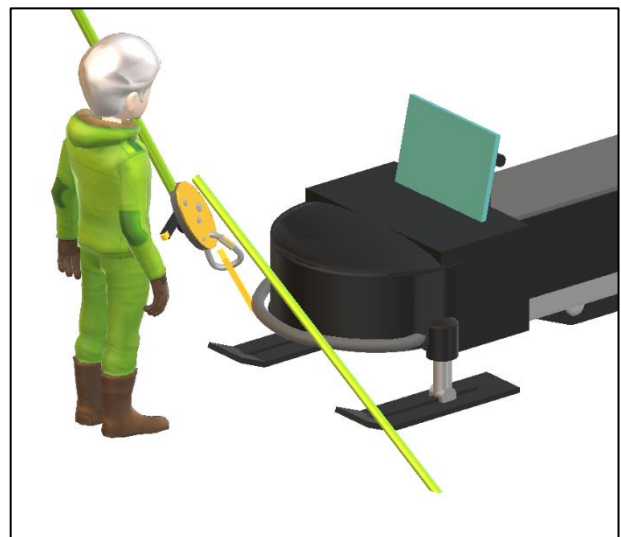
## Safe Operating Practice

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### 5 – Set Up Belay Device on Anchor

1. Wrap a small sling around a firm attachment point on the machine that is being used as an anchor
2. Connect the belay device to the sling with a carabiner, do not drop the belay device in the snow
3. Feed the rescue rope properly through the belay device to prepare for the lowering of patrons (see following three pages)





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## Belay Devices

Old

New





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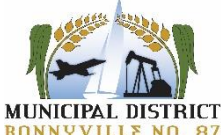
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### Rigging **Old** Style Belay Device

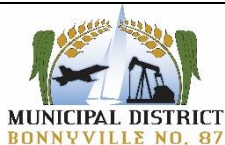




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## Rigging **New** Style Belay Device – Same as Old





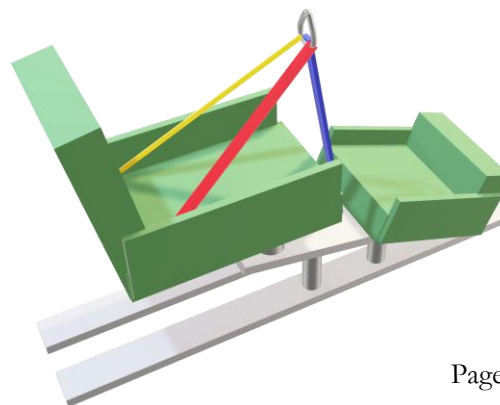
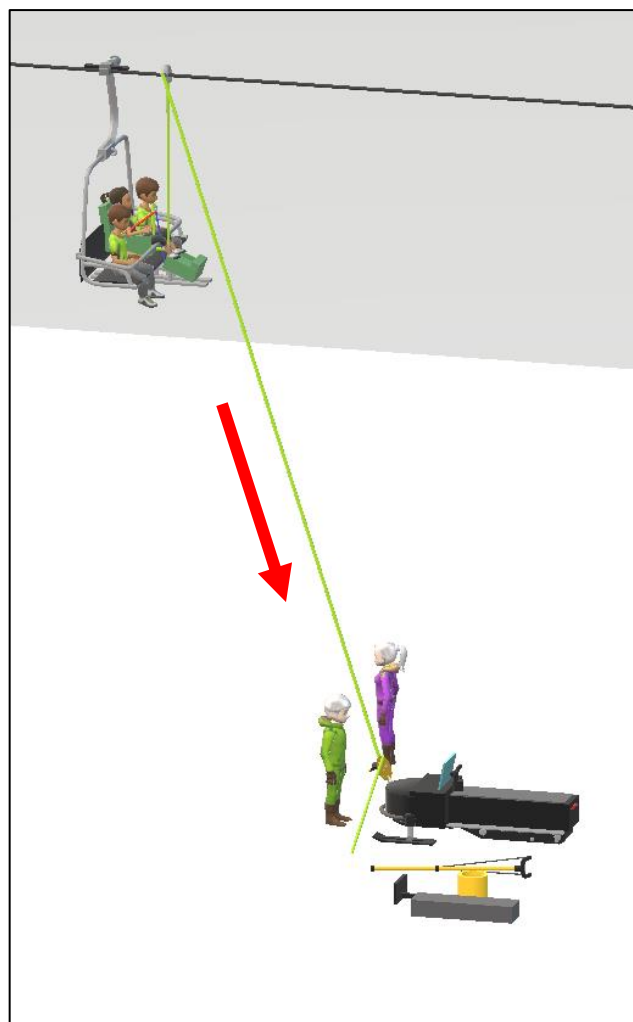
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### 6 – Raise Rescue Rope and Attach to Sit Ski

1. Begin pulling slack out of the rescue rope to raise it up to the persons being rescued
2. Leave enough rope for the person(s) being rescued to pull the rope **underneath** of the chairlift seat restraining bar, and up to where it connects to the sit ski
3. The sit ski rider or their caretaker will then attach the carabiner and rescue rope to the sit ski
4. Instruct them to connect the carabiner to the sit ski in the way mentioned on page 2

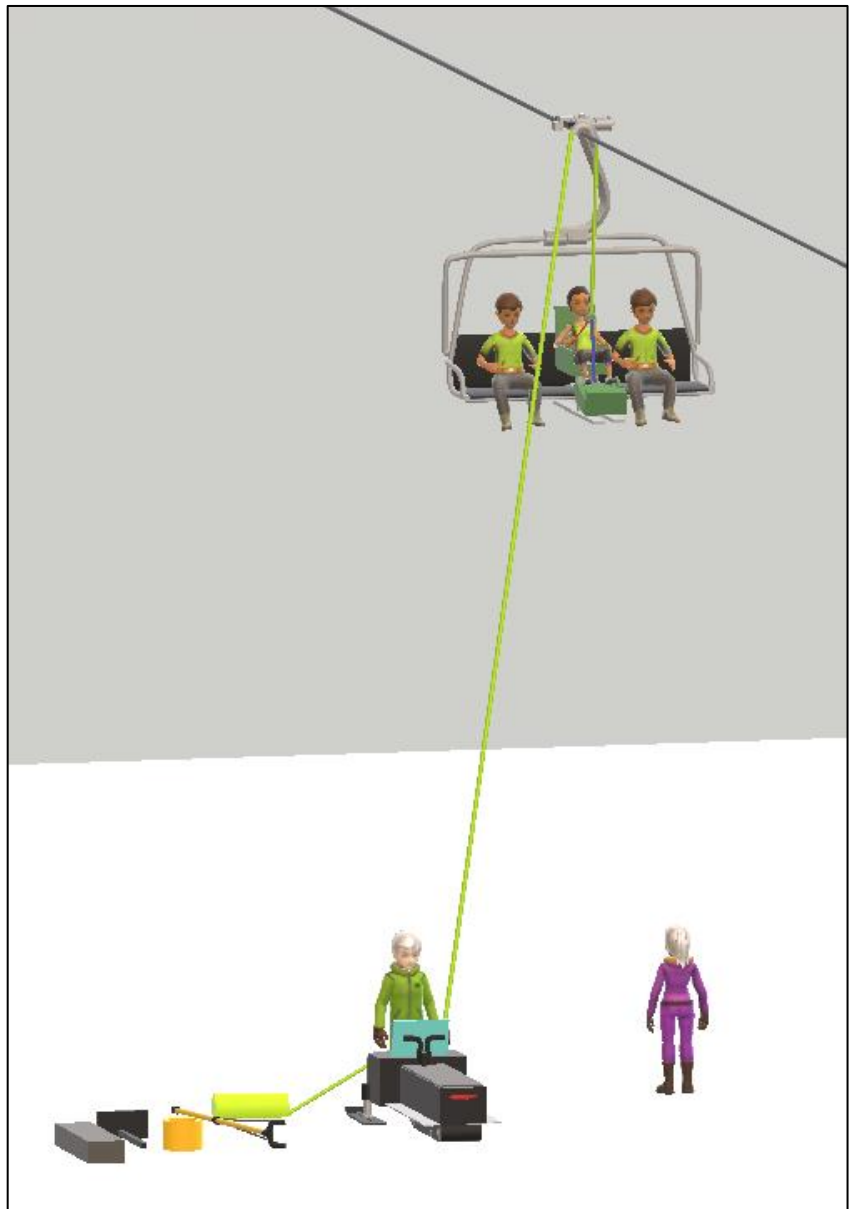


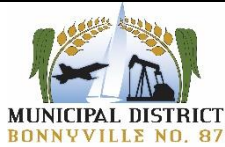
**Watch that rescue rope does not get tangled in skis, snowboards, restraining bars, and footrests**

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## 7 – Prepare to Lower

1. Instruct patrons to hold themselves onto the chairlift seat by putting one arm behind the backrest
2. Instruct patrons to raise the restraining bar on the chairlift seat
3. Take any slack out of the rescue rope as the restraining bar raises





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## Kinosoo Sit Ski Evacuation

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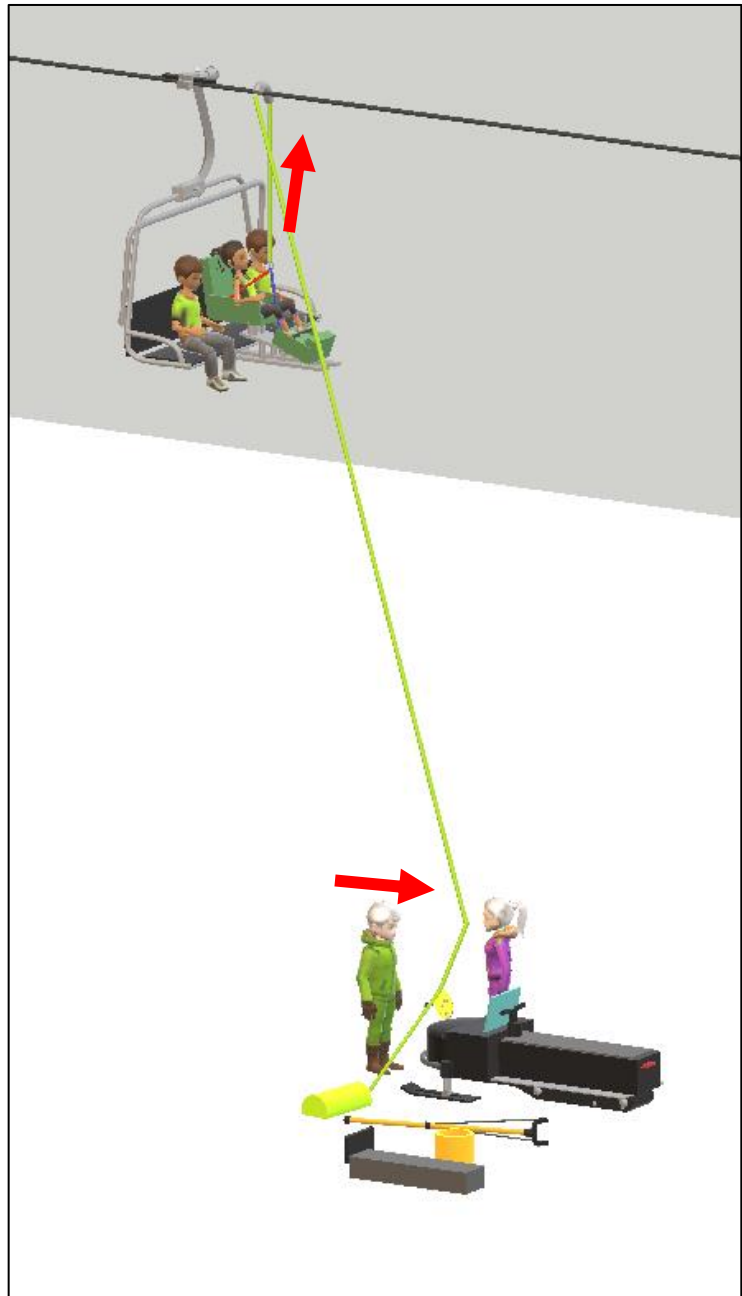
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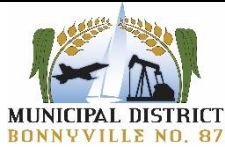
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### 8 – Lift Sit Ski off Chairlift Seat

1. Have the idle person bend/pull the rescue rope at ground level, this will take a few inches out of the line, which will raise the sit ski off of the chairlift seat
2. Instruct the patron in the sit ski or their caretaker to push the sit ski away from the chairlift seat
3. Let the bend out of the rescue rope, this will lower the sit ski a few inches, and the rescue rope will tension, the belay device will hold the weight







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## Kinosoo Sit Ski Evacuation

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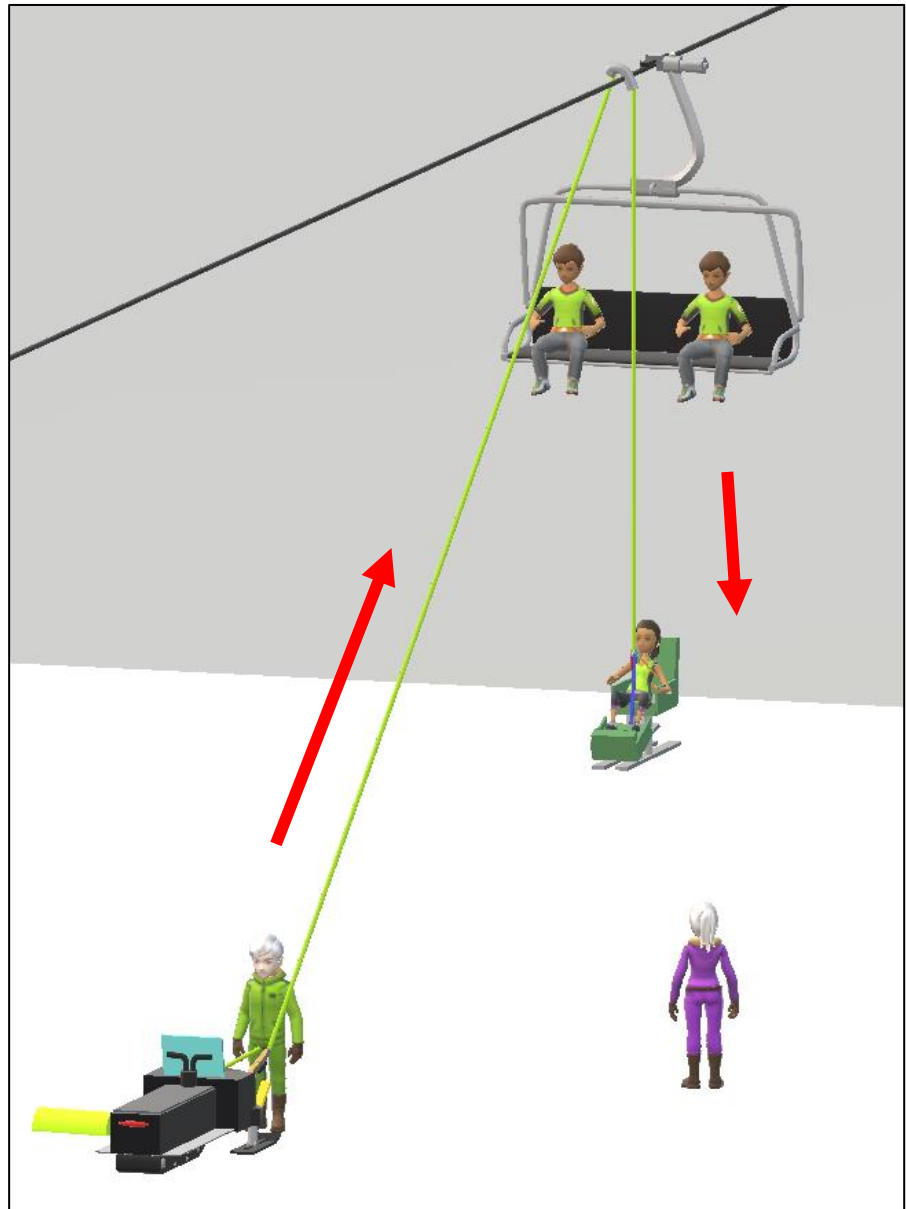
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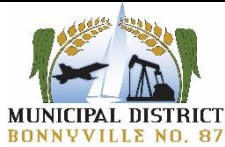
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### 9 – Begin Lowering

1. Begin lowering the sit ski using the belay device
2. Have a person ready to catch the sit ski and turn it sideways as it nears the ground
3. Communicate with the patron on their way down
4. Ask the patrons remaining on the chairlift seat to lower the restraining bar





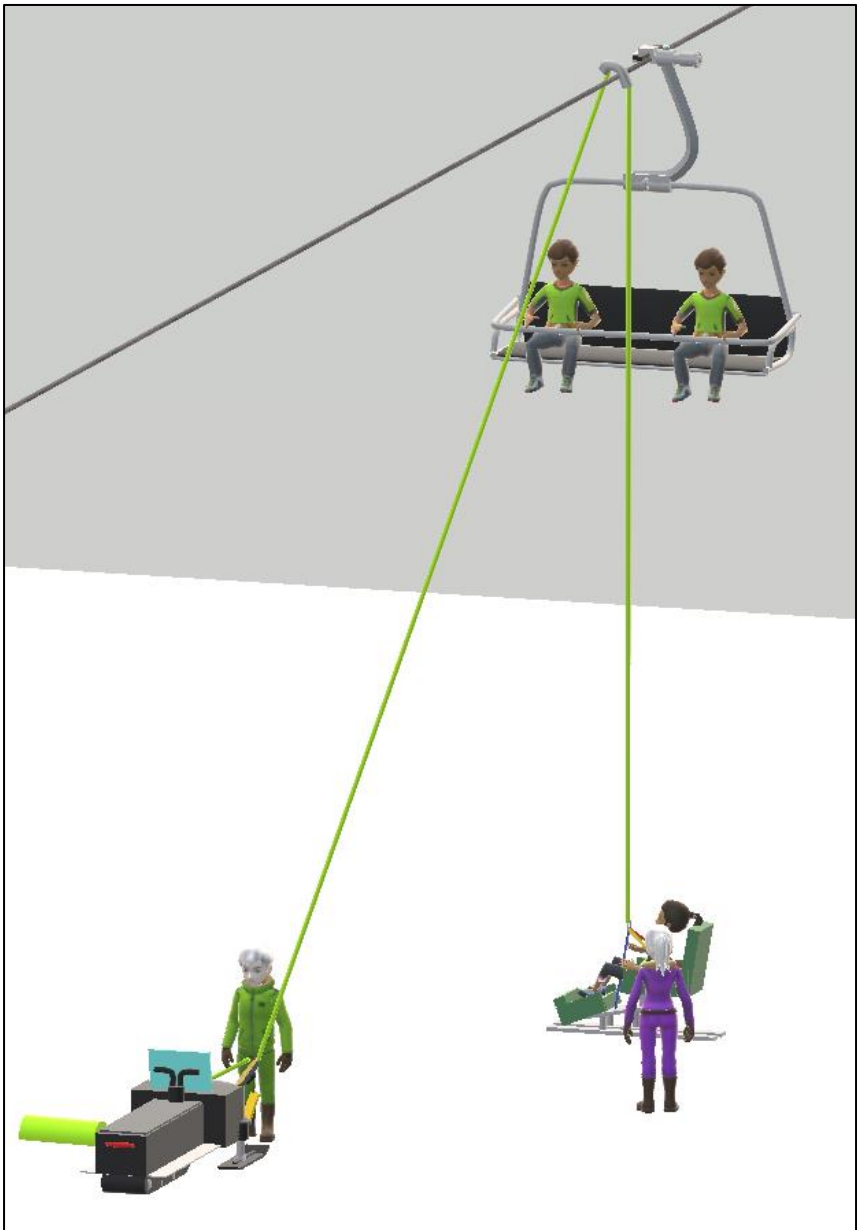
## Safe Operating Practice

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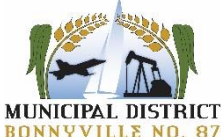
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### 10 – Prepare to Land

1. Turn sit ski against the slope as it nears the ground, you do not want it to run away uncontrolled downhill
2. Grab ahold of the sit ski and keep it upright as it lands and the rescue rope slacks off



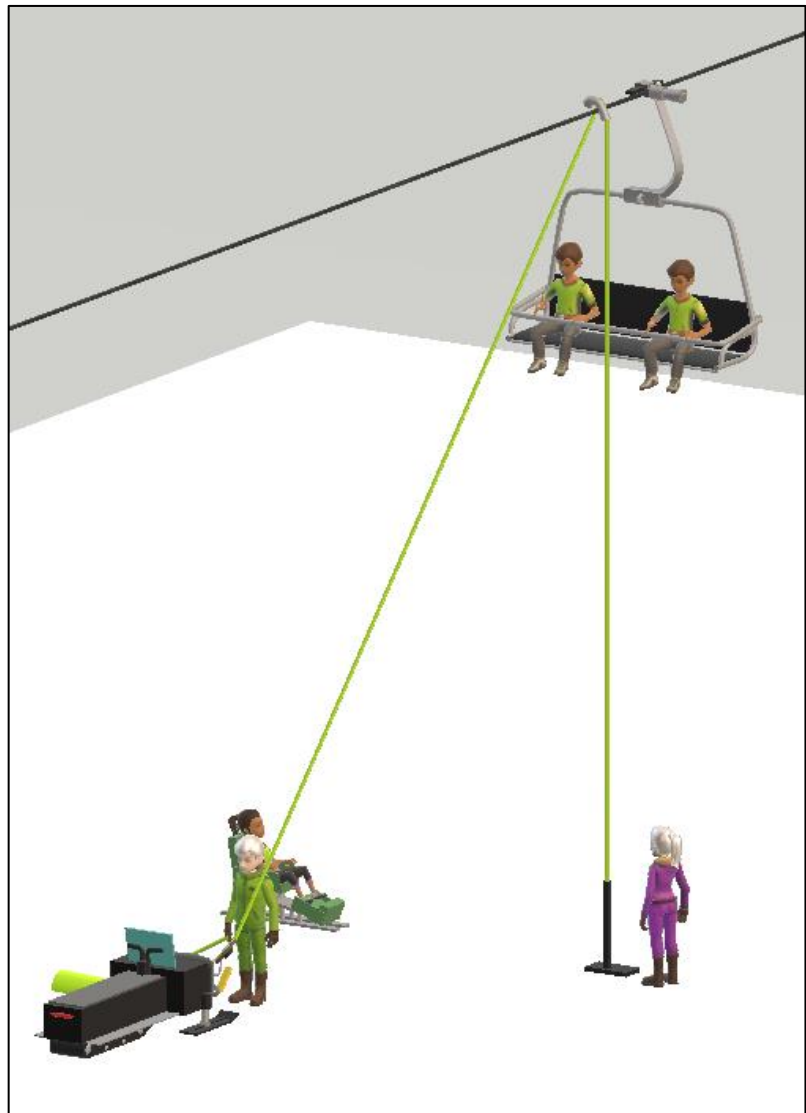
**Be careful underneath of the chairlift seat, watch for skis or boards which could detach, helmets must be worn**

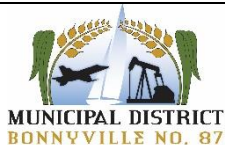
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## 11 – Move Sit Ski Out of Way, Prepare Rescue “T” Seat

1. Get sit ski passenger out of their way, somewhere comfortable, and calmed down if necessary
2. Slide rescue rope back in front of the chairlift seat on the rope saver
3. Attach the “T” rescue seat to the end of the rescue rope using the clip in the loop
4. Do a demonstration of sitting on the rescue seat and sinching up the safety rope under around your torso for the first person lowered on that chair
5. Tell the patrons whoever is going to be lowered needs to move to the center of the chairlift seat

**Be careful underneath of the chairlift seat, watch for skis or boards which could detach, helmets must be worn**





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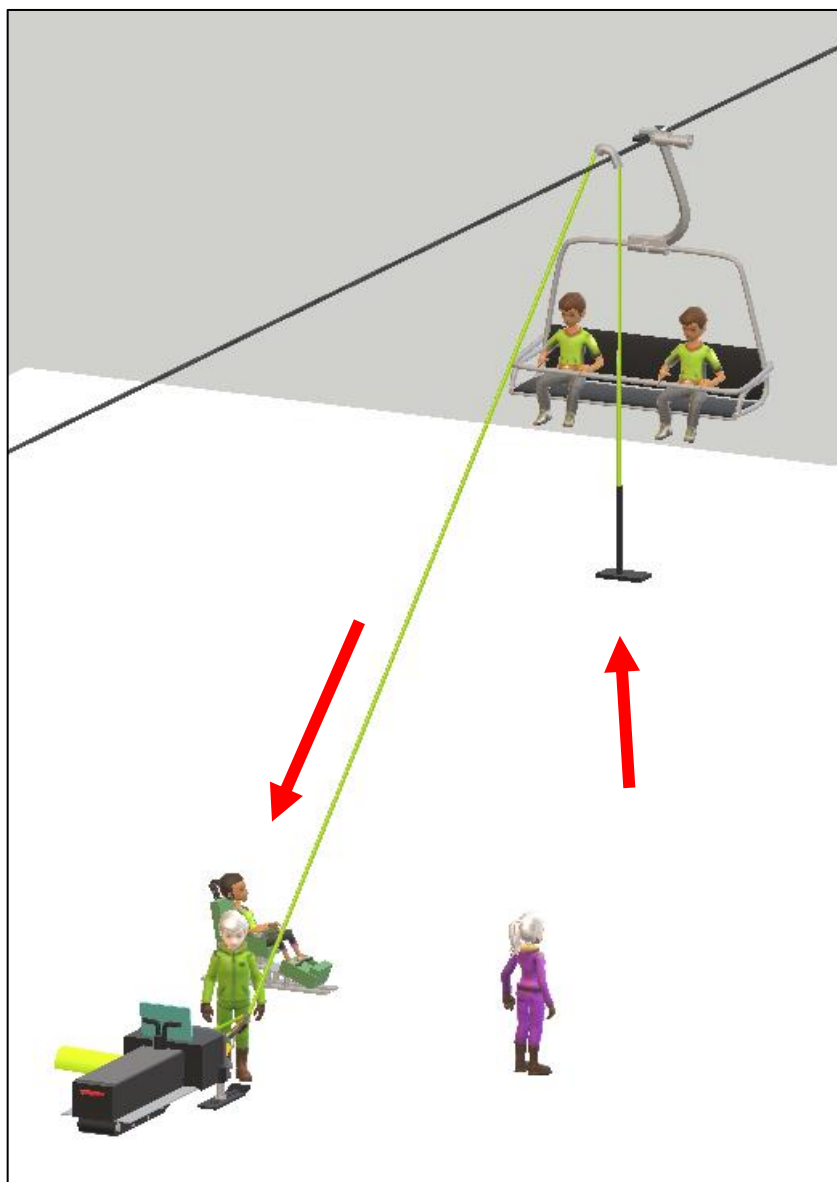
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### 12 – Raise Rescue “T” Seat

1. Raise the rescue seat up to the chairlift seat
2. Leave enough rope for the person being rescued to pull the rope and rescue seat underneath of the chairlift seat restraining bar

**It is a common mistake for most people to take up too much slack at this stage, creating a difficult situation of lowering an unweighted seat, and wasting valuable time, leave lots of extra rope, people can pull the rescue seat up to themselves**



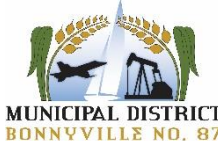
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### ***13 – Prepare to Lower***

Guide the patron through preparing the rescue seat for themselves

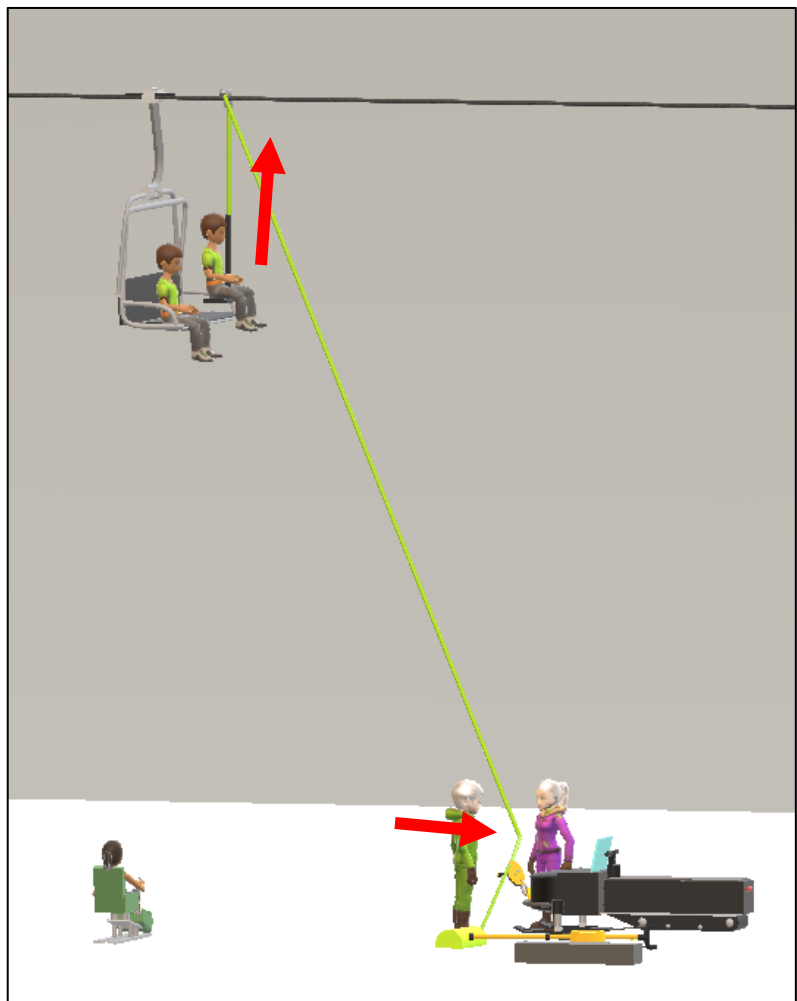
1. Raise the rescue rope and seat under the restraining bar
2. Sit on the platter part of the seat, with the upright metal bar tightly between their legs
3. Put the safety rope over their head and under both armpits (not on 3D model)
4. Sinch up the safety rope to their body by pulling the metal tube on the rope as tight to their chest as possible (not on 3D model)
5. Instruct patrons not being lowered to hold themselves onto the chairlift seat by putting one arm behind the backrest
6. Instruct patrons to raise the restraining bar on the chairlift seat
7. Take any slack out of the rescue rope as the restraining bar raises




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#### 14 – Lift Rescue “T” Seat off Chairlift Seat

1. Have the idle person bend/pull the rescue rope at ground level, this will take a few inches out of the line, which will raise the rescue seat off of the chairlift seat
2. Instruct the patron in the rescue seat to push themselves away from the chairlift seat
3. Let the bend out of the rescue rope, this will lower the rescue seat a few inches, and the rescue rope will tension, the belay device will hold the weight



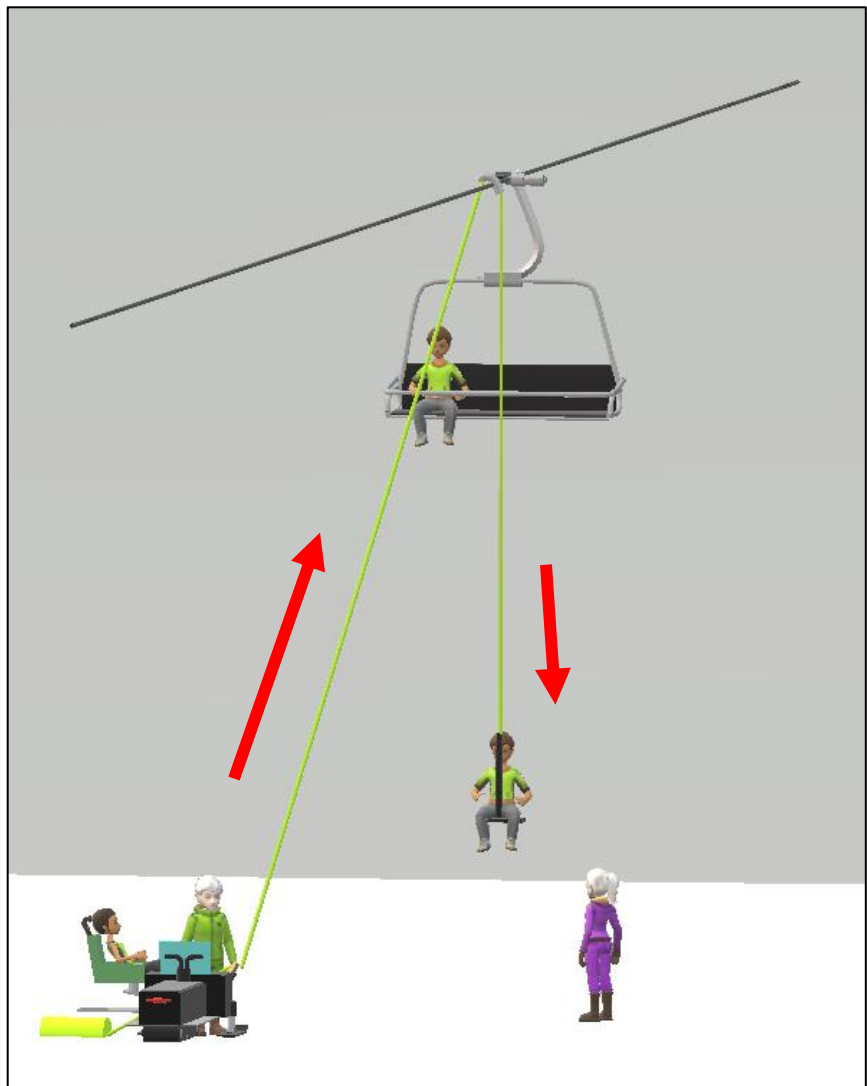


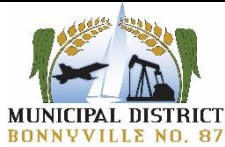
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## 15 – Begin Lowering

1. Begin lowering the rescue seat using the belay device
2. Have a person ready to catch the rescue seat/patron
3. Communicate with the patron on their way down
4. Ask the patrons remaining on the chairlift seat to lower the restraining bar

**Be careful underneath of the chairlift seat, watch for skis or boards which could detach, helmets must be worn**





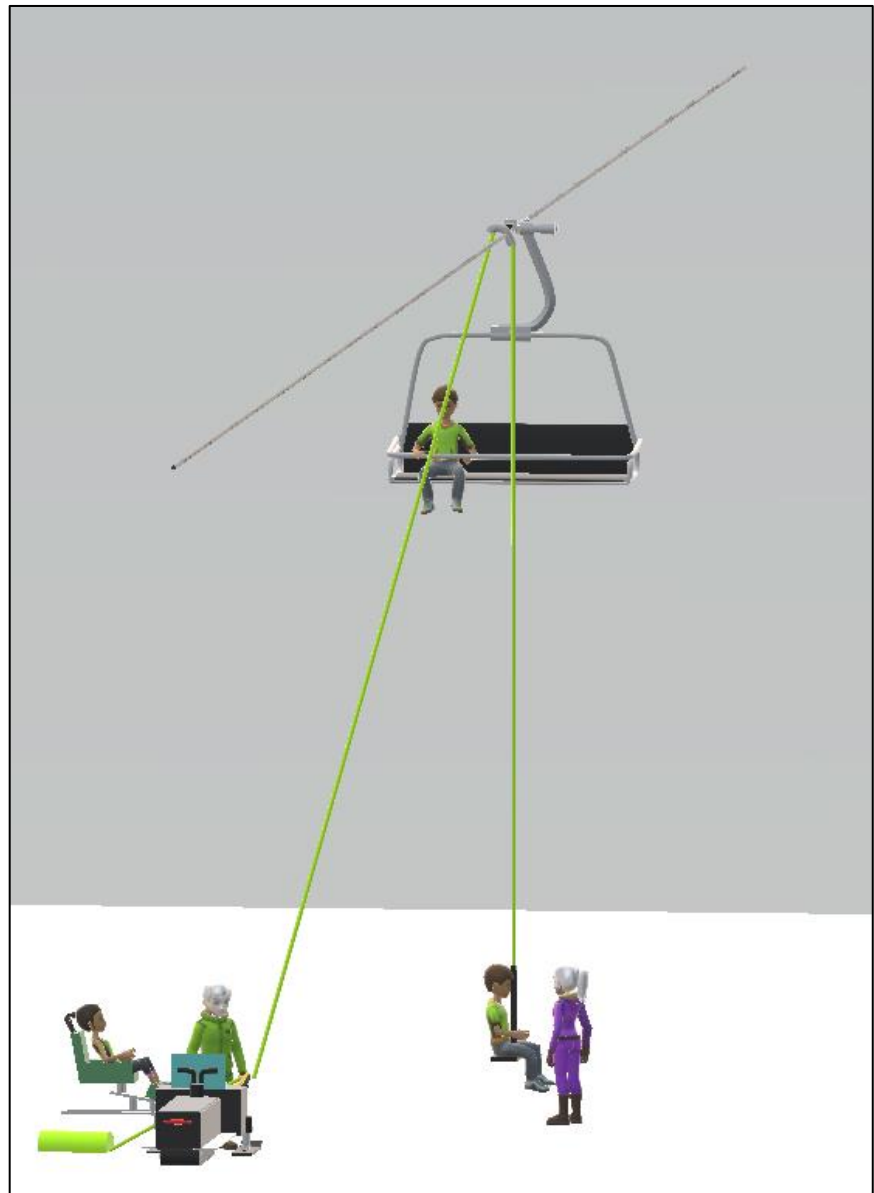
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### 16 – Prepare to Land

1. Turn rescue seat/patron against the slope as it nears the ground, you do not want them to run away uncontrolled downhill on their skis or board
2. Grab ahold of the rescue seat/patron and keep them sideways as they land and the rescue rope slacks off

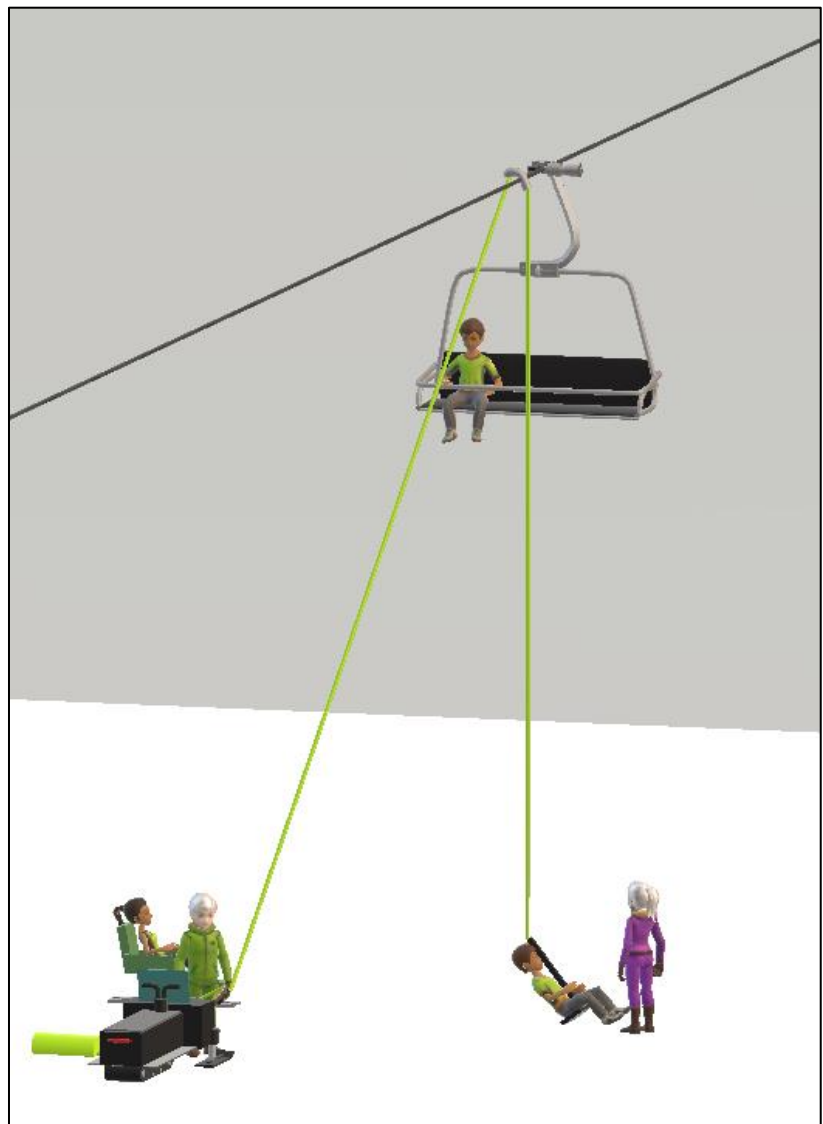



**Be careful underneath of the chairlift seat, watch for skis or boards which could detach, helmets must be worn**

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### 17 – Move Patron Out of The Way, Prepare for Next Lower

1. Get patron out of the rescue seat, somewhere comfortable, and calmed down if necessary
2. Slide rescue rope back in front of the chairlift seat on the rope saver
3. Tell the patrons whoever is going to be lowered needs to move to the center of the chairlift seat
4. Repeat steps 11-17 for any remaining patrons
5. Flick the rescue rope to knock the rope saver off of the chairlift haul rope (not pictured)
6. Pull all of the rescue rope over the chairlift haul rope from the side with the rescue seat attached
7. Patrons are triaged by ski patrol for frostbite, stress, and any other potential injury
8. Patrons are guided to guest services for full documentation of names, ages, and full contact information



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#### RECORDS/DOCUMENTATION

Documented reviews of this safe operating practice are to be forwarded to Health and Safety department

#### AMENDMENT HISTORY

Date	Amendment Made	By Whom
January 29, 2023	Creation	Cole Christie