Technical rescue teams intervene in particularly difficult or dangerous situations. Intensively trained and taught, they operate in any environment where conventional rescue teams cannot intervene safely. These specialists master all the techniques for progression and belaying on ropes, including the more complex ones: evacuation downward, upward, or by Tyrolean traverse, etc.

Downward evacuation
Easier to install, this type of evacuation is favored whenever possible. Downward evacuation takes place using gravity, applying different techniques determined for specific types of terrain.

Upward evacuation
Upward evacuation requires techniques which are sometimes particularly complex (hauling with a mechanical winch, creating a hauling system built from lightweight pulleys, using counterweight techniques, etc.). Upward evacuation is a team effort and requires perfect coordination by everyone involved.

Evacuation by Tyrolean traverse
When evacuation of the victim is difficult (urban sites, industrial sites, confined spaces, canyons, etc.) or impossible due to the presence of an obstacle, victims can be evacuated via Tyrolean traverse. These complex systems can only be installed by rescue workers who have been specially trained to make suitable decisions about the choice of techniques (Tyrolean traverse set up with transport rope and back-up safety rope, "cable-car" system, special Tyrolean traverse for moving the victim in all directions while adapting to the terrain, etc.).

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Technical rescue

Downward evacuation
Intervention with large team

Upward evacuation
«Balancier» technique

Evacuation by Tyrolean traverse
Backed up rescue system (vertical and horizontal)

Evacuation by rope-to-rope transfer:
Alternative to tyrolean traverse
This technique requires more clearance than the tyrolean traverse, as the ropes are less taut.
Quick to install with minimal equipment
Grey rope for back-up belay
Green rope for movement

- White ropes: double Tyrolean. Guiding the KOOTENAY pulley and the (gray) back-up rope. (Prusik hitches are attached to the (blue) rope to avoid slack on the gray back-up rope)
- Grey rope: back-up rope (guided)
- Blue ropes: belays horizontal movement (back and forth)
- Green rope: allows vertical movement (backed-up pulley system)

Information is non-exhaustive. Refer to the other pages as well as to the user instructions and technical manuals. Technical training is essential.