Situations for use:
- Extensive removal distance
- Large-size downed firefighter

Webbing or rope can be used for drag
- Distributes weight between both rescuers

Two Drag Options:
- Simultaneous
- Alternating

- Used for subfloor removals as a last resort
- Method 1: Rope Bight
  - Double rope in half
  - Middle of rope clips into firefighter pompier hook
- Method 2: Double Handcuff Knot
  - Two attachments
  - Upper front
  - Lower rear
  - Lower rear attachment can be double handcuff or
    Figure 8 on bight can be used along with carabiners
- Both methods provide option for two or
  four removal lines

- Upper-Floor Removal Option
- Ladder high point method incorporating
  personal harness
- Equipment Required
  - Life safety rope
  - Ground ladder
  - Ladder is used as a high point anchor and
    a friction device
  - Downed firefighter attachment is harness
    pompier hook through coat
  - Prevents inversion

For more information on Personal Harness Use, go to Training
Minutes or Daniel DiRenzo's article on Personal Harness Use in
Fire Engineering, both at FireEngineering.com. Special thanks to Safety
& Survival Training, LLC, and the Collingswood (NJ) Fire Department.

Created by Daniel DiRenzo, Cherry Hill (NJ) Fire Department

Stairwell removals create a
difficult upward climb because of:
- Rescuer fatigue
- Steepness/turns
- Awkward positions
- Stairwell instability

Focus on torso of body

Top Rescuer
- Attach pompier hook to firefighter's
  SCBA strap
- Vertical lift
- Handles on pompier hooks or
  harness straps

Bottom Rescuer
- Uses harness straps as lifting handles
- Out and up motion

HORIZONTAL DRAGS – TWO FIREFIGHTERS

VERTICAL LIFT

FIREFIGHTER STAIR REMOVAL
TACTICAL BUILDING BLOCKS SERIES

Personal Harness Use

Situations for use:
- Extensive removal distance
- Large-size downed firefighter

Webbing or rope can be used for drag
Distributes weight between both rescuers

Two Drag Options:
- Simultaneous
- Alternating

Used for subfloor removals as a last resort

Method 1: Rope Bight
- Double rope in half
- Middle of rope clips into firefighter pompier hook

Method 2: Double Handcuff Knot
- Two attachments
  - Upper front
  - Lower rear
- Lower rear attachment can be double handcuff or Figure 8 on bight can be used along with carabiners

Both methods provide option for two or four removal lines

Upper-Floor Removal Option
Ladder high point method incorporating personal harness

Equipment Required
- Life safety rope
- Ground ladder
- Ladder is used as a high point anchor and a friction device
- Downed firefighter attachment is harness pompier hook through coat
- Prevents inversion

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Stairwell removals create a difficult upward climb because of:
- Rescuer fatigue
- Steepness/turns
- Awkward positions
- Stairwell instability

Focus on torso of body

**Top Rescuer**
- Attach pompier hook to firefighter’s SCBA strap
- Vertical lift
- Handles on pompier hooks or harness straps

**Bottom Rescuer**
- Uses harness straps as lifting handles
- Out and up motion

FIREFIGHTER STAIR REMOVAL
VERTICAL LIFT

Used for subfloor removals as a last resort

Method 1: Rope Bight
- Double rope in half
- Middle of rope clips into firefighter pompier hook

Method 2: Double Handcuff Knot
Two attachments
- Upper front
- Lower rear
Lower rear attachment can be double handcuff or Figure 8 on bight can be used along with carabiners

Both methods provide option for two or four removal lines

VERTICAL LOWER

Upper-Floor Removal Option
Ladder high point method incorporating personal harness

Equipment Required
- Life safety rope
- Ground ladder
- Ladder is used as a high point anchor and a friction device
- Downed firefighter attachment is harness pompier hook through coat
- Prevents inversion

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Personal Harness Use

Situations for use:
- Extensive removal distance
- Large-size downed firefighter

Webbing or rope can be used for drag
- Distributes weight between both rescuers

Two Drag Options:
- Simultaneous
- Alternating

For subfloor removals as a last resort

Method 1: Rope Bight
- Double rope in half
- Middle of rope clips into firefighter pompier hook

Method 2: Double Handcuff Knot
- Two attachments
  - Upper front
  - Lower rear
- Lower rear attachment can be double handcuff or Figure 8 on bight can be used along with carabiners

Both methods provide option for two or four removal lines

Upper-Floor Removal Option
Ladder high point method incorporating personal harness

Equipment Required
- ✓ Life safety rope
- ✓ Ground ladder

Ladder is used as a high point anchor and a friction device

Downed firefighter attachment is harness pompier hook through coat
- ✓ Prevents inversion

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