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# KNOTS AND ROPE MANAGEMENT

## HIET002



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U.S. MARINE CORPS FORCES SPECIAL OPERATIONS COMMAND



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# Overview



- Terms used in rope work
- Four classes of knots
- Knots and their uses

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# Terms Used in Rope Work

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- Bight
- Loop
- Half-Hitch
- Running End
- Standing End
- Lay
- Pigtail

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# Four Classes of Knots

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- **Class I** - End of the Rope Knots
- **Class II** - Anchor Knots
- **Class III** - Middle of the Rope Knots
- **Class IV** - Special Knots

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# Knots and Their Uses

- **End of the Rope Knots**
  - Square Knot
  - Tape Knot
  - Double Fisherman



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# Square Knot

- Used to tie ends of two ropes of equal diameter together.
- Secured by over hand knots.



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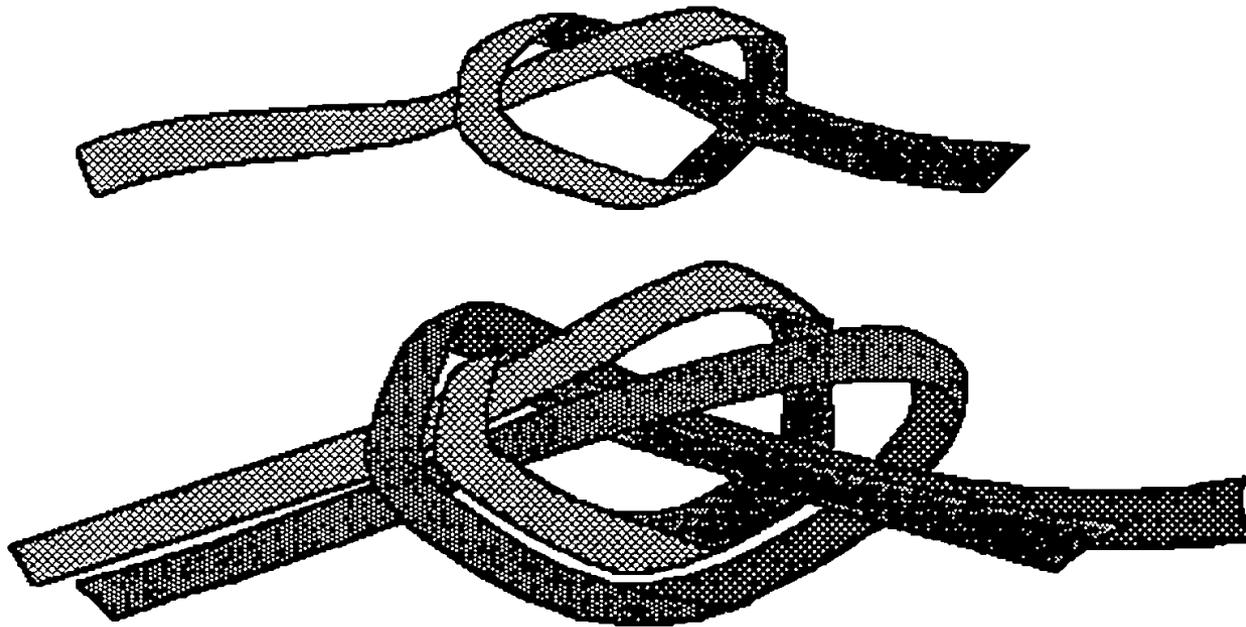


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# Tape Knot

- Used to tie secure webbing or tape runners.



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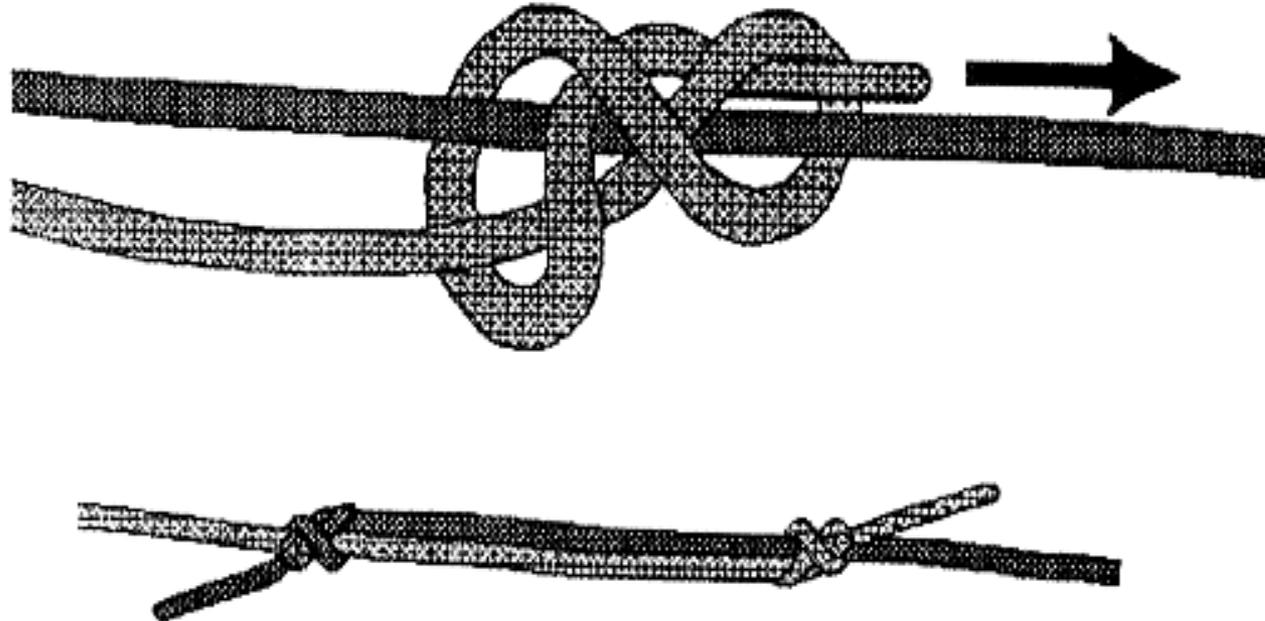


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# Double Fisherman's Knot

- Used to tie two ropes of equal diameter together.
- Self-locking.



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# Knots and Their Uses

- **Anchor Knots**

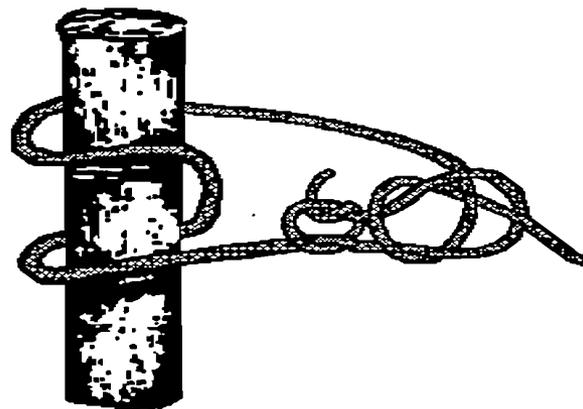
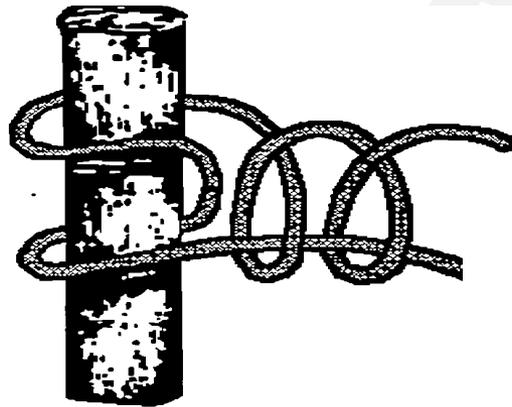
- Round Turn and Two Half Hitches
- Bowline
- Clove Hitch

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# Round Turn and Two Half Hitches

- Used to distribute a load over a small diameter anchor.
- Loop that runs around an object, providing 360° contact.



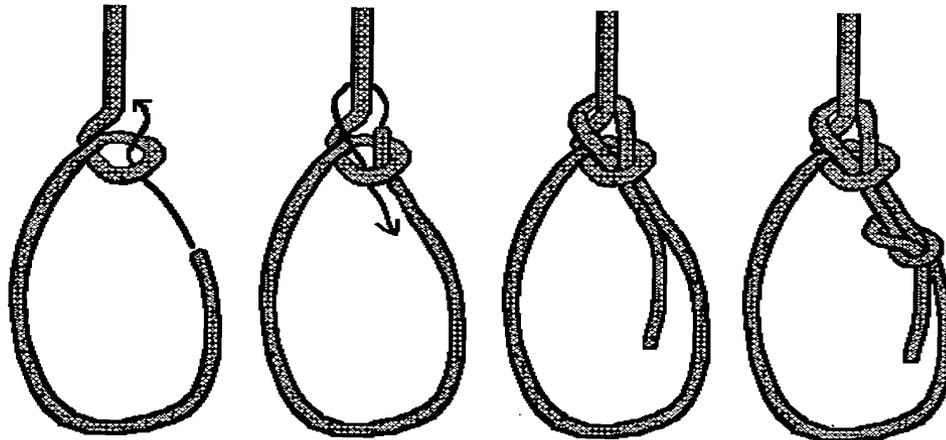


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# Bowline

- Used to tie a fixed loop in the end of a rope.
- Secured with an overhand knot.



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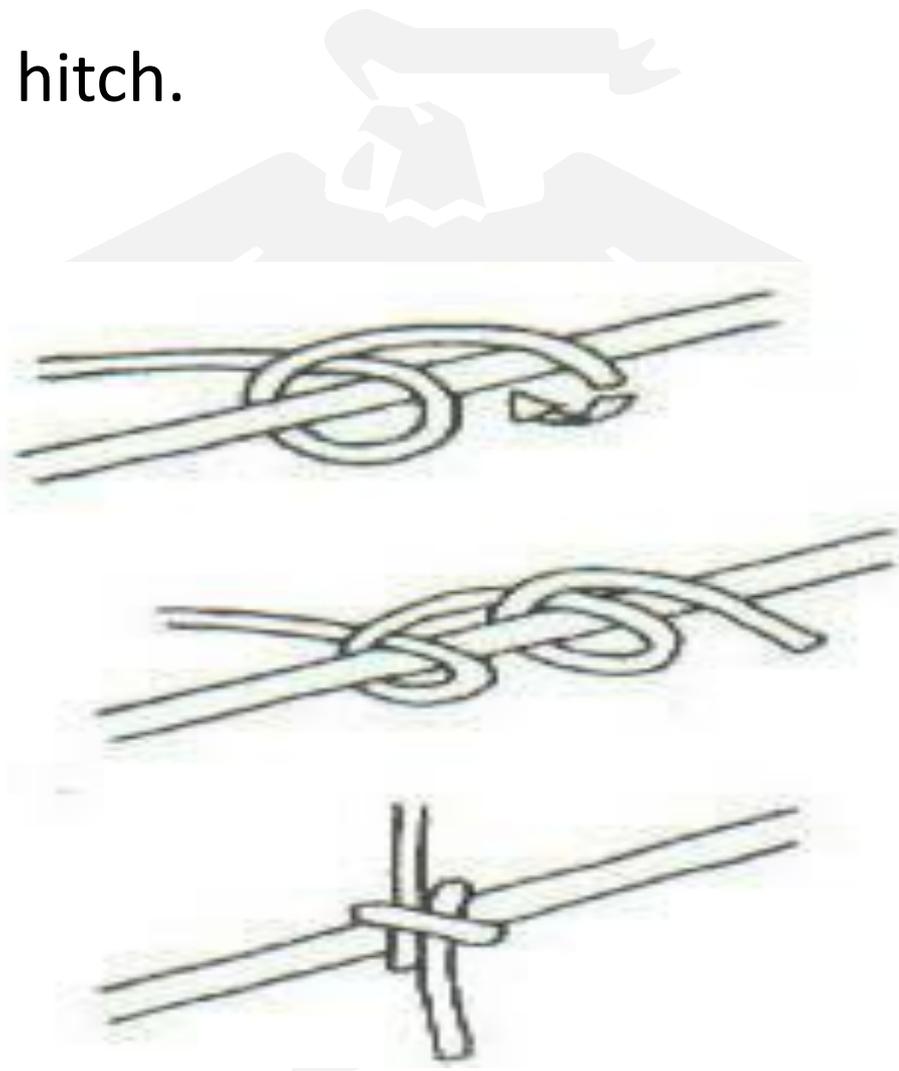


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# Clove Hitch

- Adjustable hitch.



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# Knots and Their Uses

- **Middle of the Rope Knots**
  - Figure 8 Loop



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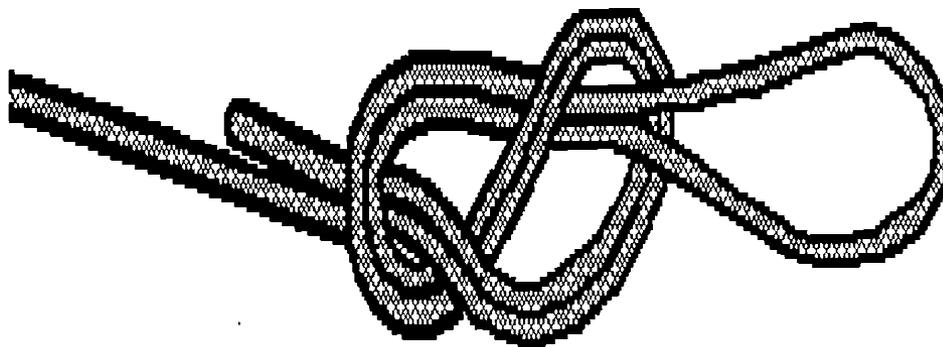


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# Figure 8 Loop

- Strong knot.
- Can be readily untied.



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# Knots and Their Uses

- **Specialty Knots**

- End of the Line Prusik
- Directional Figure 8 Loop
- Around the Body Bowline with Figure 8 Loop
- Military Rappel Seat

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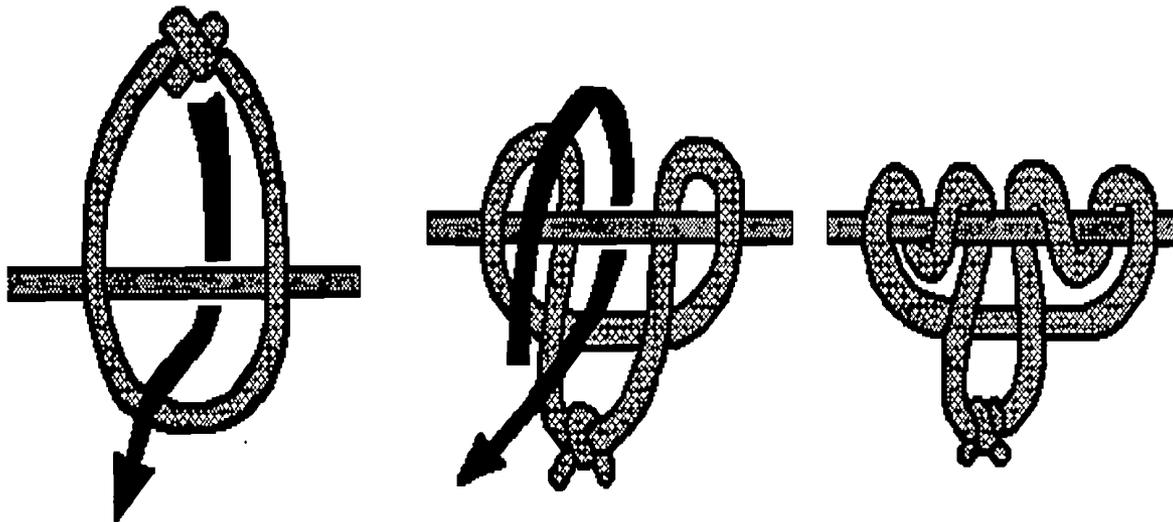


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# End of the Line Prussik

- Created with the standing end of the rope.
- Two outboard and inboard wraps are put over a line.
- Finished with a bowline.



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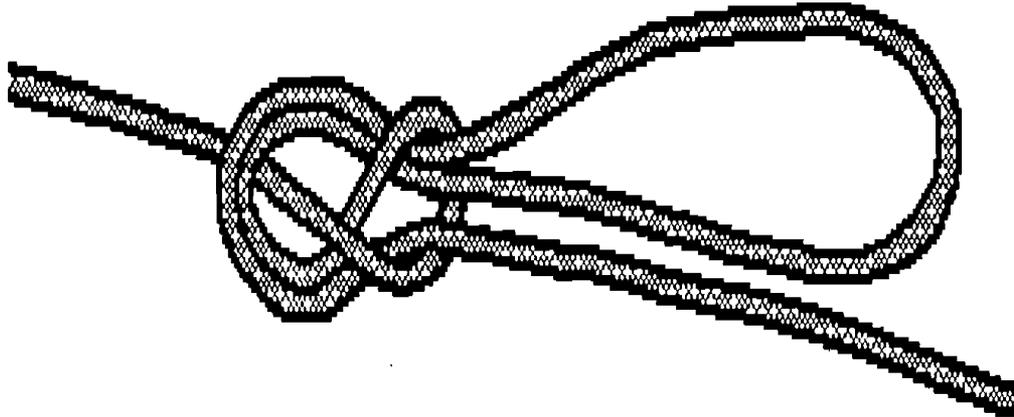


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# Directional Figure 8 Loop

- When pressure is applied, the knot will not pull apart.



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# Around the Body Bowline

- Used as a safety line during SPIE operations.



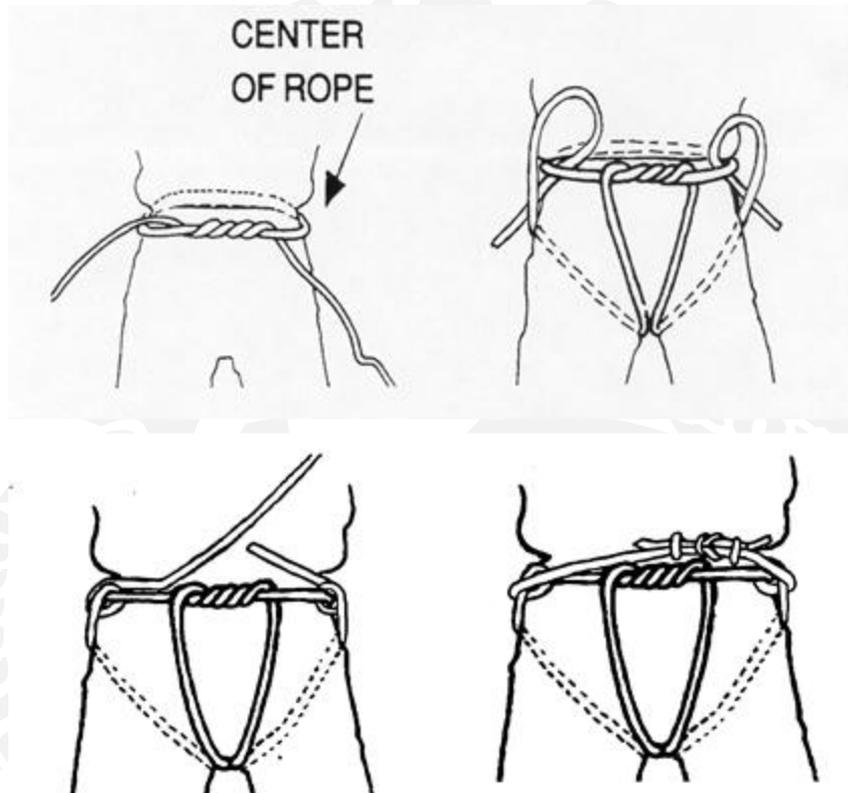
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# Military Rappel Seat



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