
Ropes and Knots

Tying a Fire Service Becket Bend

Lesson Plan 3

FIREFIGHTER 1
LESSON PLAN #3

<u>TOPIC:</u>	How To Tie A Becket Bend
<u>LEVEL:</u>	2
<u>TIME:</u>	15 Minutes
<u>OBJECTIVES:</u>	
Given:	One length of rope, gloves.
Performance	The student will tie a becket bend
Standard:	Completing all operations within 30 seconds according to the job breakdown.
<u>REFERENCES:</u>	IFSTA Essentials of Fire Fighting
<u>MATERIALS NEEDED:</u>	One length of rope, gloves, and job breakdown.
One (1) length of rope	
One (1) pair of gloves	
One (1) stop watch	
One (1) performance test worksheet	

PREPARATION

The effective use of ropes, knots, and hitches is one of the basic foundations of a firefighter's work. It is absolutely critical that you comprehend and perform all rope work automatically and with precision.

The becket bend or also known as a sheet bend is used for joining two sections of rope or extending other devices such as chains or wire. It is also adaptable to ropes of different size, and is not likely to slip when the ropes are wet.

Many fire situations during fire department operations call for a loop in the end of a rope, provided by a bowline.

Discuss some reasons for using this knot such as extending a line, rope, wire, chain, etc. with a section of rope. You may mention how the double becket bend provides even better connection between a rope and whatever is being extended such as a chain. Don't spend time on the double becket bend.

Ensure safety points such as wearing gloves are described and why. Don't forget to describe the parts of the rope, the running line, the standing end, the bitter end, a loop, and a bight. This is general rope information not necessarily specific to the becket bend.

PRESENTATION

OPERATIONS

1. Make a bight in standing end of line.
2. Place the bitter end
3. Pass behind bight
4. Front of bight
5. Pull through to secure
6. Pull standing line to secure
7. Add safety (overhand) knots

KEY POINTS

Show the running line in either hand
Create a bight in the standing end of the running line. Bitter end goes up through bight, passes behind the bight, then pass under the running line. While holding bitter end, pull standing line to secure knot. Add overhand knots to the ends of each rope to add safety.

APPLICATION

Tie ropes	Provide one rope to each student
Gloves	Enforce safety by requiring gloves be worn to tie knots, explain why
Demonstrate	Tie knot at normal speed again (moving from presentation to application.)
Demonstrate	Tie again using step by step method
Demonstrate	Tie again, again at normal speed
Observe	Have students start tying the knot, observe their progress, encourage success, correct where necessary.
Prepare	Once satisfied by observation students are ready for next step, ask them if they are ready for evaluations.

EVALUATION

Prepare for evaluations

Ensure candidates are ready for evaluations. Explain passing scores, expectations, standards

Written quiz

Quiz can be given either prior to or immediately after practical test. Grade quiz before candidates leave, show scores to each candidate in private. Passing score is 80%

Practical test

Perform the practical test in seclusion with each candidate. The knot must be completed in no more than 30 seconds. The time will begin on the command "Go." The time will end when the knot is correctly completed to include dressing the knot as necessary.

This concludes this training session. Thank those who participated, ensure any information such as next training session is provided, that all paperwork including roster has been completed.

Equipment needed:

- One (1) length of rope
- One (1) pair of gloves
- One (1) stop watch
- One (1) performance test worksheet

Behavioral Objective:

Given:

Performance:

Standard:

With one (1) length of rope, gloves, the candidate shall tie a becket bend and complete all operations within 30 seconds according to the job performance requirements.

Name: _____ Class: _____ Date: _____

Becket Bend Quiz

True/False

Indicate whether the statement is true or false with the letter T or F

_____ 1. The Becket Bend is used only for connecting two like ropes.

_____ 2. The loop in a rope can also be called a bight

Multiple Choice

Identify the choice that best completes the statement or answers the question

_____ 3. Wearing gloves is necessary to:

- | | |
|---|--|
| a. Protect hands from rope contaminants | c. protect rope from hand contaminants |
| b. Make task harder | d. give better grip on rope |

_____ 4. To start tying the becket bend, create a bight in the:

- | | |
|----------------------------|-----------------------------|
| a. running end of the rope | c. standing end of the rope |
| b. bitter end of rope | d. forward end of rope |

_____ 5. The rope end used for passing through the bight is called the:

- | | |
|-----------------|-----------------|
| a. standing end | c. bitter end |
| b. running line | d. forward line |

**becket bend quiz
answer sheet**

TRUE/FALSE

1. ANS: F

The becket bend can be used to extend any kind of rope, cable, chain, etc. with a like or even unlike length or diameter of rope, cable, chain, etc.

2. ANS: F

A matter of common rope terminology. A loop means the rope passes over itself whereas a bight is where the rope is brought back upon itself without passing over itself.

MULTIPLE CHOICE

3. ANS: A

This is a safety item that needed emphasis in class delivery. We never know whether or not a rope has been contaminated with chemicals or materials that could harm us.

4. ANS: C

This enforces rope terminologies.

5. ANS: B

A matter of rope terminologies.

5.1 GENERAL REQUIREMENTS

Evaluation Sheet:

5.1.2 GENERAL SKILL REQUIREMENTS – KNOTS

Skills Sheet: B

Standard _____

Candidate: _____

Date: _____

STANDARD: 5.1.2 NFPA 1001, 2013 Edition		TASK: Tie the following knot: Becket or Sheet Bend,			
PERFORMANCE OUTCOME: The candidate, while operating on a simulated fire ground, shall be able to tie a Fire Service Becket Bend with appropriate safety knots within 30 seconds					
CONDITIONS: Given appropriate and adequate rope(s) and while wearing protective gloves, the candidate shall demonstrate the ability to tie the fire service becket bend finished with appropriate safety knots.					
NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Becket Bend				
2.	Safety knot(s) competed within 30 seconds				
RETEST APPROVED BY:			RETEST EVALUATOR:		

Evaluator/Candidate Comments:

Evaluator (Print & Sign)

Date

Candidate

Date

Re-Test Evaluator

Date

Re-Test Candidate

Date

CLASS ROSTER

SUBJECT:

DATE: TIME:

STUDENT LEVEL: INSTRUCTOR:

RE/CERTIFICATION: LOCATION:

	NAME & SIGNATURE	WRITTEN SCORE	PRACTICAL PASS/FAIL
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

SPECIAL NOTE: The instructor is responsible for ensuring that the class roster is complete and handed in to the Training Division by the end of the shift.