

TECHNICAL ROPE RESCUER II

PRACTICAL SKILLS CERTIFICATION EVALUATION PACKET

(NFPA Standard 1006, 2013 Edition)

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Technical Rope Rescuer II Practical Skills Correlation Map (NFPA 1006, 2013 Edition)

2013 Skill Sheet	NFPA Section	Tasks FION: 6.1 General Rope Rescue Requirements	Certification JPR Requirement: 4 Mandatory
TRR-II 1	6.2.1 6.2.2 6.2.3	Function in High-Angle Environment Move a Victim Function as Litter Tender	Mandatory
TRR-II 2	6.2.4	Direct High-Angle Victim Removal Operation	Mandatory
TRR-II 3	6.2.5 6.2.6	Direct Construction and Operation of Highline System	Mandatory
TRR-II 4a-b	6.2.7 6.2.8	Access a victim and isolate/manage harmful energy sources	Mandatory
		Technical Rescuer Equipment List	
		Technical Rescuer Facility List	

Skill Sheet Packet Instruction

Purpose of the Skill Sheets

All skills listed in this packet are consistent with <u>NFPA 1006</u>: <u>Standard for Technical Rescuer Professional Qualifications</u>, 2013 edition. The Alaska Fire Standards Council (AFSC) provides these skill sheets as the basis for Technical Rope Rescuer II testing and certification.

Description & Use

For certification purposes, the final skill examination will consist of a series of mandatory skill from this packet.

- 1. These skills sheets are for use by the Training Program Manager/Training Officer, or designee, and Technical Rope Rescuer II candidate. Use of this packet throughout a training course will assist in verifying candidate competency and completion of the Technical Rope Rescuer II Training Record.
- 2. For eligibility to complete the final certification examination, a candidate must demonstrate competency in all skills during training.
- 3. This packet encompasses the requisite skills for Technical Rope Rescuer II for use during final testing for certification. Technical Rope Rescuer II courses material should utilize this packet to prepare candidates for the certification exam.
- 4. The final skills examination will consist of skills selected from this packet. A candidate must successfully perform each skill while being evaluated on performance competency by an AFSC examination representative.
- 5. The Certifying Officer will notify candidates which skills they will be required to complete at the start of the practical skills portion on the date of the examination.
- 6. The Training Officer/Training Program Manager or designee must complete and sign the Technical Rope Rescuer II Training Record for each candidate before a candidate can begin the final skills examination. The Technical Rope Rescuer II Training Record shall become a permanent part of the candidate's local training record, and this information shall be kept on file in accordance with local fire department procedures.

Grading Criteria

- 1. The Training Program Manager/Training Officer, or designee, shall evaluate all Technical Rope Rescuer II skill sheet elements throughout a course. There are no specific critical points designated within the practical skill sheets, and the Certifying Officer (CO) will require the candidate to repeat an individual practical skill station if *all* of the listed skill items on a selected sheet are not completed by the candidate.
- 2. The Certifying Officer (CO) will require the candidate to repeat final examination practical skill items if all listed skills are not completed.
- 3. Addressing real-time skills scenario's during the final examination is not always feasible and the Training Program Manager/Training Officer, or designee, shall ensure that the candidate can provide the Certifying Officer, or designated Evaluator, documentation of completed skill items listed on these pages. These skill sheets must be completed by the candidate prior to the final test date and available for review by the Certifying Officer.

Artificialities of Training and Testing

Training and testing for Technical Rope Rescuer II levels can only approximate on the job activities of a technical rescuer. There are artificialities to training and testing for Technical Rope Rescuer IIs. In certain environments, the Training Program Manager/Training Officer, or designee, and the candidate must be able to adapt to simulations during the final examination to complete the required practical skills. The design of a Technical Rope Rescuer II course must enable the candidate to develop skills to manage training programs, create lesson plans, conduct classes and supervise other instructors, and evaluate and analyze written and practical exams. The Training Program Manager/Training Officer, or designee, must prepare candidates for situations that may occur throughout the training and testing environment.

Final Skills Evaluation

The AFSC designated Certifying Officer (CO) conducts the final examination and has the overall test site authority. The CO is required to perform his or her duties as outlined in the <u>Certification Policy Manual</u>.

For preparation of the final examination, the designated CO must communicate with the Test Site Coordinator to ensure an adequate test site location is available. The Test Site Coordinator is responsible for preparation of all test site equipment/materials and arranging designated evaluators for the date of the practical examination. The CO must verify that all required elements are adequate for testing and will approve all designated Evaluators. Designated Evaluators shall receive training appropriate for the test site and are required to complete an Evaluator Code of Ethics Compliance agreement before testing begins.

The completion of each job performance requirement in the TRR-II Training Record is required before certification testing. The course Lead Instructor is responsible for the completing the candidate Training Record <u>prior</u> to the final exam. Due to time constraints during the final examination, the candidate cannot perform some skills in the presence of the Certifying Officer. The Training Program Manager/Training Officer, or designee, shall ensure the candidate completes all skill items and provides documentation for final evaluation by the CO. The CO shall sign the completed final examination packet.

Additional Notes on Final Evaluations:

- 1. Candidates shall be dressed in accordance with their department policy and procedure during the final practical examination.
- 2. A candidate shall perform all related skills correctly.
- 3. Some skill evaluations may include a time limit. An Evaluator may use a digital or analog watch/stopwatch for final skills evaluation. Prior to the start of the practical examination, the CO must inspect and approve all timing devices used during final skills evaluations.
- 4. Some skills may require the use of equipment or documentation for the final presentation. Unless otherwise indicated, it is permissible for the candidate to prepare or assemble the required equipment or paperwork at any time, if this does not interfere with the core skill, task, or evolution.
- 5. Candidates must be prepared to complete skills under a variety of conditions. Optimal conditions often exist during training and skills practice, but candidates must be prepared to adapt to changing conditions that can occur in actual instructional situations. The Evaluator ultimately determines if the candidate has met the criteria specified on the skill(s) under evaluation.
- 6. For final examination, the performance of a skill, task, or evolution is not required to be done in the exact order of the steps (as outlined on the skill sheet), unless it is critical to a particular task. For example, a person must don turnout gear before donning an SCBA.
- 7. Some skills may require that a candidate verbalizes information about a particular task or procedure. In such cases, any question(s) from the Evaluator to the candidate must be limited to those that satisfy the criteria listed on the skill sheet, and a question cannot exceed the scope the Airport Firefighter requirements.

Technical Rope Rescuer II Final Evaluation Forms

Following is a brief outline of the reference materials and forms for use at an TRR-II final skills evaluation.

TRR-II Course Material Reference

- a. NFPA 1006, 2013 edition
- b. TRR-II Text/Curriculum
 - High-Angle Rope Rescue Techniques: Levels I & II, 4th Edition
- c. TRR-II Training Record (this must be completed and signed off by the Training Program Manager/Training Officer, or designee,)
- d. Practical Skills and Final Examination Packet

Final Skills Examination

- a. Candidate *Training Record is reviewed by the CO to ensure all elements have been completed
- b. Candidate completes the written and practical examination administered by the CO
- c. Certifying Officer reviews and signs *Final Examination Packet for each candidate
- d. Certifying Officer transfers pass/fail information to the Practical Examination Report Form
- e. Written exam, Practical Examination Report Form and signed application are forwarded to AFSC
- f. AFSC TRR-II certificate is issued upon successful completion of the written and practical exam

^{*}Note: The Training Program Manager/Training Officer, or designee, shall file the candidate's completed Training Record in accordance with local agency procedures.

NFPA 1006-2013 Ed.

PRACTICAL SKILL REQUIREMENTS

TRR-II 1a

		Function in High-Angle Environment
STANDARD: NFPA 1006, 6.2.1, 6.2.2, 6.2.3 (B)	SKILL AREA:	Move a Victim
		Function as Litter Tender

TASK:

- **6.2.1:** Complete an assignment while suspended from a rope rescue system in a high-angle environment, so that risks to victims and rescuers are minimized, the means of attachment to the rope rescue system is secure, selected specialized equipment facilitates efficient rescuer movement, and specialized equipment does not unduly increase risks to rescuers or victims.
- **6.2.2:** Move a victim in a high-angle environment, so that risks to victims and rescuers are minimized, undesirable victim movement within the transfer device is minimized, the means of attachment to the rope rescue system is maintained, the victim is removed from the hazard, selected specialized equipment facilitates efficient victim movement, and the victim can be transported to the local EMS provider.
- **6.2.3:** Function as a litter tender in a high-angle lowering or hauling operation, so that risks to victims and rescuers are minimized, the means of attachment to the rope rescue system is secure, and the terrain is negotiated while minimizing risks to equipment or persons.

PERFORMANCE OUTCOME: The candidate shall be able to:

- **6.2.1:** Select and use rescue harness and personal protective equipment for common environments, attach life safety harnesses to the rope rescue system, maneuver around existing environment and system specific obstacles, perform work while suspended from the rope rescue system, and evaluate surroundings for potential hazards.
- **6.2.2:**Choose patient transfer devices, select and use personal protective equipment appropriate to the conditions, attach a transfer device to the rope rescue system, reduce hazards for rescuers and victims and determine specialized equipment needs for victim movement.
- **6.2.3:** Select and use rescuer harness and personal protective equipment for common environments, attach the life safety harness to the rope rescue system, maneuver the litter past obstacles or natural structural features, manage the litter while suspended from the rope rescue system, and evaluate surroundings for potential hazards.

EQUIPMENT: Appropriate personnel protective equipment (USAR gear is acceptable), auxiliary rope rescue equipment, and SOP/SOG's.

CONDITIONS: Given rescue personnel, an established rope rescue system incorporating a simple rope mechanical advantage system, a minimum travel distance of 20 feet each direction for the load, a load to be moved, and an anchor system, the candidate shall demonstrate the ability to:

No.	Task Steps	TEST		EST RETEST 1		RETEST 2	
		P	F	P	F	P	F
1.	Select and use appropriate equipment						
2.	Attach the life safety harness to the rope rescue system						
3.	Maneuvers around existing environment and system-specific obstacles						
4.	Performs work while suspended from rope rescue system						
5.	Evaluate surroundings for potential hazards						
6.	Choose proper patient transfer device						
7.	Attach a transfer device to the rope rescue system						
8.	Reduce hazards for rescuers and victims						
9.	Determine specialized equipment needs for victim movement						
10.	Identify safety concerns						

Candidate:				Date:	
NFPA 1006- 20	013 Ed.	PRACTICAL S	KILL REQUIREMEN	NTS	TRR-II 1b
Evelvetow			Retest Evaluator 1:		
Evaluator:			Retest Evaluator 2:		
Comments:					
	Certifying Officer Name		Date	Overall Skill	Sheet Result:
Cer	tifying Officer Signature			Pass:	Fail:

		ALASKA ROPE RESCUER II PRAC	TICAL SKILLS EVAL	UATIO	N PACI	KET			
Candi	idate:				Date	3			
NFPA	1006- 20	13 Ed. PRACTICAL S	SKILL REQUIREM	IENTS	S			TRR	-II 2
STAN	DARD:	NFPA 1006, 6.2.4 (B)	SKILL AREA:				th Ang al Ope		
victims	and rescue	eam in the removal of a victim suspended from ers are minimized, injury to the victim is minimized ctim is removed from the rope or webbing, and	nized, the means of attach	hment to	the rop	e rescu	ie systei	n is	
lanyard	s or rope o	E OUTCOME: The candidate shall be able to r webbing, manage operation of the selected stictims, and determine specialized equipment n	ystem, determine condition	on of the					
EQUIP SOP/SO		appropriate personnel protective equipment (U	SAR gear is acceptable),	auxilia	y rope i	escue e	quipme	nt, and	
		Given rescue personnel, an established lowerin candidate shall demonstrate the ability to:	g system, a minimum tra	vel of 2	0 feet fo	or the lo	ad, and	a victi	m to
No.		Task Steps		TE	TEST		RETEST 1		EST 2
				P	F	P	F	P	F
1.		nd uses appropriate equipment and PPE.							
2.	the load	ystem and plan is appropriate for rescue needs	given the situation and						
3.		al edges are protected							
4.		, bends, and hitches are appropriate and correc	tly tied]				
5.		control device correctly attached and operated			<u> </u>			<u> </u>][
6.		s secured and belay system attached						<u> </u>	
7.		system safety checks						<u> </u>	
8. 9.		icates clearly and concisely during operation en requested and secures load in place						H	
- 10	-							 	
10. 11.		s not over stressed removed in a controlled manner			旹			 	
12.		are completed safely		$\overline{\Box}$	$\overline{\Box}$				
		,	<u></u>						
Evalu	ator:		Retest Evaluato	r 1:					
Lvaia	ato1.		Retest Evaluato	r 2:					
Comn	nents:								
	C	ertifying Officer Name	Date	<u>O</u>	verall	Skill	Sheet	Resu	<u>lt:</u>

Certifying Officer Signature

Pass:

Fail:

	ALASKA ROPE RESCUER II PRACTICAL SKILLS EVALUATION PACKET							
Cand	idate:				Date	:		
NFPA	1006- 20	13 Ed. PRACTICAL	SKILL REQUIRE	MENTS	S		TRR	2-II 3
STAN	DARD:	NFPA 1006, 6.2.5, 6.2.6 (B)	SKILL D AREA:			iction and (hline Systei	_	tion
system comporminima 6.2.6: 6 operation	Direct a teat constructed nent parts, all effort over lirect a teating method	am in the construction of a highline system, so ad can accommodate the load, tension applied a safety check is performed, movement on the er the desired distance. In the operation of a highline system, so that is do not stress the system to the point of failures are identified, communicated, and managed	within the system will not e system is efficient, and at movement is controlled re, personnel assignments	ot exceed loads car d, the loa	the rate n be hel d is hele	ed capacity of and in place or not in place when	any of in noved we noveded	ts vith d,
6.2.5: I set-up, safety c 6.2.6: I commu	ncident ne identify the checks, use ncident ne inicate with PMENT:	E OUTCOME: The candidate shall be able to eds as related to construction of highline system to expect on the property of the english of the english of the english of the eds, complete a system safety check, evaluate the personnel effectively, management movement of the personnel protective equipment (University of the eds).	ems, evaluate an incident highline, select a highlin rsonnel effectively. system components for nt of the load, and evalua	e system compromate for an	for definited into the second	ined task, performerity, select partial problems	orm syst	tem el,
COND ability		Given rescue personnel and a highline system	with a minimum span of	f 20 feet,	the can	didate shall de	monstra	ate the
No.		Task Steps		TE P	ST F	RETEST 1 P F	RET	EST 2
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11.	Choose s Protect a Commur Appropri Moveme Performs Load car Load is r All knots	and uses appropriate equipment and PPE. afe anchor points Il critical edges aicates clearly and concisely during operation tate tension is applied to the highline system nt on the system is efficient and effective system safety checks a be held in place when directed a be moved with minimal effort and with full of aised and lowered in a controlled manner s, bends, and hitches are appropriate and corre are completed safely	ctly tied					
	Evaluator: Retest Evaluator 1:							
Comn	nents:							
	(Certifying Officer Name	Date		overall ass:	Skill Sheet	Resu	_

Certifying Officer Signature

Candidate:	Date:
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NFPA 1006- 2013 Ed.

PRACTICAL SKILL REQUIREMENTS

TRR-II 4a

STANDARD: NFPA 1006, 6.2.7, 6.2.8 (B)	SKILL AREA:	Access a Victim and Isolate/Manage Potentially Harmful Energy
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TASK:

- **6.2.7:** Access a victim in a high-angle environment using techniques that require rescuers to climb up or down natural or manmade structures given a belay, a belay system, or other mechanisms, so that the risks from a fall are minimized or eliminated; the patient is accessed; and the objective is achieved.
- **6.2.8:** Isolate and manage potentially harmful energy sources found in erected structures, including power systems and construction materials, given personal protective equipment, so that all hazards are identified, systems are manage, beneficial system use is evaluated, and hazards to rescue personnel and victims are minimized.

PERFORMANCE OUTCOME: The candidate shall be able to

- **6.2.7:** Select and use rescue harness and personal protective equipment for common environments, attach life safety harnesses to a rope rescue system, maneuver up and down structures and/or system specific obstacles, perform work while ensuring contact to said object is maintained and fall arrest is in place at all times. Fall factors should be calculated in this system.
- **6.2.8:** Identify, select appropriate protective equipment, and manage potential life safety hazards with regard to manmade structures.

EQUIPMENT: Appropriate personnel protective equipment (USAR gear is acceptable), auxiliary rope rescue equipment, and SOP/SOG's.

CONDITIONS: Given appropriate equipment to access a victim at a minimum working height of 20 feet without an established high point, the candidate shall demonstrate the ability to:

No.	Task Steps	TEST		RETEST 1		RETEST 2	
		P	F	P	F	P	F
1.	Selects and uses appropriate equipment and PPE.						
2.	Attach the life safety harness to the rope rescue system						
3.	Identify hazards accompanied with manmade structures						
4.	Demonstrates the ability to move up or down a manmade structure without an established high point						
5.	Operate tools/devices for securing hazards						
6.	Choose proper patient transfer device						
7.	Attach a transfer device to the rope rescue system						
8.	Reduce hazards for rescuers and victims						
9.	Determine specialized equipment needs for victim movement						
10.	Perform system safety check prior to use						

Candidate:]	Date:	
NFPA 1006- 20	013 Ed.	PRACTICAL S	SKILL REQUIREMEN	NTS		TRR-II 4b
Evalvatava			Retest Evaluator 1.	:		
Evaluator:			Retest Evaluator 2:	:		
Comments:						
	Certifying Officer Name			Ov	erall Skill	Sheet Result:
Cer	tifving Officer Signature			Pa	.ss:	Fail:

	Technical Rope Rescuer II Req	uired Equipment	Related Skill Sheet(s)
☐ 1 Appropriate personnel protective equipment (USAR gear is acceptable)			
2	Standard Operating Procedures (SOP)/Standa	rd Operating Guidelines (SOG)	1 - 4
3	 □ carabiners, locking) □ Class 2 and Class 3 harnesses □ Communication devices, fixed and portable □ Descending/ascending devices (friction or mechanical) □ Detector, electrical energy □ edge protection, hard and soft □ Fire extinguisher □ First aid and oxygen kits □ Gloves □ Helmets □ KED or equivalent □ Knife, rescue □ Litter bridle □ Lighting, hand and/or Helmet 	Rescue rope grab devices Pickets, steel stakes Perimeter or scene-marking devices Personnel accountability system Preplans/maps Prusik cord Pulleys, selection of Rope- life safety Rope- utility Safety glasses and hearing protection SKED or equivalent and/or rigid litter Tactical worksheets Traffic control devices Victim protective coverings Water Webbing	1 - 4
4	NFPA 1006: Standard for Technical Rescue I		1 - 4
5	NFPA 1670: Standards on Operations and Tr Incidents	aining for Technical Search and Rescue	1 - 4

	Technical Rope Rescuer II Required Facility Checklist	Related Skill Sheet(s)
1	Classroom with table and chairs	
2	High-angle rope rescue prop	
3	Low-angle rope rescue prop	
4	Multi-story structure with layout to conduct various high/low-angle rope rescue drills	