

# CONTROL BLEEDING USING A COMBAT APPLICATION TOURNIQUET (C-A-T)

For use of this form see TC 8-800; the proponent agency is TRADOC.

**TABLES:** I

**REFERENCES** STP 8-68W13-SM-TG, Task: 081-833-0210, Apply a Tourniquet to Control Bleeding.

1. **Soldier** (Last Name, First Name, MI)

2. **Date** (YYYYMMDD)

**CONDITIONS:** Given a casualty with significant extremity hemorrhage in a simulated combat environment. You are not in a CBRN environment.  
Direct pressure, elevation, and pressure dressings applied directly to the wound usually control bleeding; however, they are not always effective. In the case of traumatic amputations and in a tactical environment, use of tourniquets will greatly decrease the mortality of severely injured casualties.

**STANDARDS:** Perform all measures IAW the standards of evaluation outlined in C168W144/1 Tactical Combat Casualty Care. You must score at least 70% (10 of 13 steps) and not miss any critical (\*) elements on the skill sheet.

**SAFETY:**

- o Risk Assessment: Low. All bodily fluids should be considered potentially infectious; always observe body substance isolation (BSI).
- o Precautions: Wear gloves and eye protection as a minimal standard of protection.
- o Environmental: None

**NOTE:** Soldier Medics must be observed. (Evaluator to Soldier Medic ratio is 1:6).

### TEST SCENARIO:

Your infantry squad has been assigned the task to patrol the outskirts of a village. To your front, a mortar round impacts near your squad's point man; you drag the Soldier behind cover and perform your initial and rapid trauma assessment. The casualty is conscious and has a traumatic amputation of his left lower leg. You determine that a tourniquet is the best way to bring the hemorrhage under control. You must apply a combat application tourniquet (C-A-T) to control the bleeding; you have been provided the necessary medical equipment.

### 3. Evaluator's Comments and After-Test Recommendations:

This form was prepared by U.S. Government employees for use in the 68W MOS. Although it contains, in part, copyright material from National Registry of Emergency Medical Technicians, Inc. (NREMT) skill sheets ©2000, ©2002, and ©2003, this form has neither been prepared nor approved by NREMT. Use is restricted to guidelines contained in the Preface to TC 8-800.

**CONTROL BLEEDING USING A COMBAT APPLICATION TOURNIQUET (C-A-T)  
GRADING SHEET**

TASK	COMPLETED					
	1ST		2ND		3RD	
	P	F	P	F	P	F
4.						
a. * Took/verbalized body substance isolation (BSI) precautions.	<input type="checkbox"/>					
b. Exposed the injury by cutting away the casualty's clothing.	<input type="checkbox"/>					
c. Removed the C-A-T from the casualty's carrying pouch.	<input type="checkbox"/>					
d. Slid the wounded extremity through the loop of the self-adhering band.	<input type="checkbox"/>					
e. * Positioned the C-A-T between the casualty's heart and the wound; left at least 2 inches of uninjured skin between the C-A-T and the wound.	<input type="checkbox"/>					
f. Applied the C-A-T.	<input type="checkbox"/>					
g. * Twisted the windlass until bleeding stopped. <b>EVALUATOR: If a fellow Soldier is used as the simulated casualty, prompt the Soldier Medic when bleeding has stopped. Use care to not overtighten the C-A-T on the simulated casualty.</b>	<input type="checkbox"/>					
h. Locked the rod in place with the windlass clip.	<input type="checkbox"/>					
i. * Grasped the windlass strap, pulled it tight, and adhered it to the Velcro on the windlass clip.	<input type="checkbox"/>					
j. Using a marker, drew a "T" on the casualty's forehead and recorded the date and time the C-A-T was applied (FMC). <b>EVALUATOR: The Soldier Medic must not cover the C-A-T.</b>	<input type="checkbox"/>					
k. Transported the casualty as soon as possible to an MTF.	<input type="checkbox"/>					
l. Documented the procedure on the appropriate medical form.	<input type="checkbox"/>					
m. * Did not cause further injury to the casualty.	<input type="checkbox"/>					

\* Critical Elements



**CONTROL BLEEDING USING A COMBAT APPLICATION TOURNIQUET (C-A-T)  
EVALUATOR GUIDELINES AND INSTRUCTIONS**

Inform the Soldier Medic of the CONDITIONS and STANDARDS as stated on this form.  
Provide an optional scenario, if appropriate. This scenario should reinforce the unique or particular needs of the unit.  
Allow sufficient time for the Soldier Medic to extract information from the scenario.  
Provide each evaluator with the grading sheet.  
Ensure the Soldier Medic has all required materials.  
Explain how the exercise is graded.

**Resource Requirements:**

**Evaluator:** Grading sheet and applicable scenario.

**Soldier Medic:** Applicable scenario, medical aid bag stocked with a basic load.

**Additional Scoring Guidelines:**

**NOTE:** If the wound is on the lower leg or the forearm, bleeding may not be completely controlled with the tourniquet 2 inches above the wound. If not, the C-A-T may need to be repositioned above the knee/elbow to completely control the bleeding.

Applied the C-A-T.

- Pulled the free running end of the self-adhering band tight and securely fastened it back on itself *(if applying to an arm wound)*.  
Did not adhere the band past the windlass clip.
- If applying to a leg wound, the self-adhering band must be routed through the friction adapter buckle and fastened back on itself. This will prevent it from loosening when twisting the windlass clip.

Locked the rod in place with the windlass clip.

**NOTE:** For added security *(and always before moving the casualty)*, secured the windlass rod with the windlass strap. For smaller extremities, continued to wind the self-adhering band across the windlass clip and secured it under the windlass strap.