



# TACTICAL COMBAT CASUALTY CARE COURSE

### MODULE 3: CARE UNDER FIRE / THREAT



Committee on Tactical Combat Casualty Care (CoTCCC)

**TCCC** TIER 1 All Service Members **TCCC** TIER 2 Combat Lifesaver TCCC TIER 3 Combat Medic/Corpsman **TCCC** TIER 4 Combat Paramedic/Provider





#### TACTICAL COMBAT CASUALTY CARE ROLE-BASED TRAINING SPECTRUM **ROLE 1 CARE MEDICAL** NONMEDICAL PERSONNEL PERSONNEL COMBA PARAMEDIC ALL SERVICE COMBAT LIFESAVER PROVIDER MEMBERS COMBAT MEDIC/ CORPSMAN **YOU ARE HERE**

STANDARDIZED JOINT CURRICULUM





### **1 x TERMINAL LEARNING OBJECTIVE**

Given a combat or noncombat scenario, perform Care Under Fire in accordance with CoTCCC Guidelines 04

- **4.1** Describe the role of fire superiority and threat containment and the impact of tactical environment on Tactical Combat Casualty Care. (CLS T4:E14)
- **4.2** Describe the actions required before engaging with a casualty, to prevent harm or additional casualties in accordance with CoTCCC Guidelines. (ASM T3:E8)
- **4.3** Identify appropriate actions and priorities to treat and move casualties in Care Under Fire. (CLS T4:E16)
- **4.4** Identify the importance of early application of limb tourniquets to control life-threatening bleeding. (CLS T4:E17)
- **4.5** Demonstrate one-handed tourniquet application to self in Care Under Fire. (CLS T4:E18)
- 4.6 Demonstrate two-handed tourniquet application to a casualty in Care Under Fire. (CLS T4:E19)
  - 4.7 Describe the principles, advantages, and disadvantages of one-person drag/carry or two-person drag/carry in Care Under Fire. (CLS T4:E20)
  - **4.8** Demonstrate the one-person drags and carries of a casualty in Care Under Fire. (CLS T4:E21)
- 4.9 Demonstrate the two-person drags and carries of a casualty in Care Under Fire. (CLS T4:E22)

### **9 x ENABLING LEARNING OBJECTIVES**



Module 3: Care Under Fire



# Three PHASES of TCCC

### CARE UNDER FIRE (CUF) / THREAT

RETURN FIRE AND TAKE COVER

**YOU ARE HERE** 

### TACTICAL FIELD CARE (TFC)

2

WORK UNDER COVER AND CONCEALMENT TACTICAL EVACUATION CARE (TACEVAC)

3

MORE DELIBERATE ASSESSMENT AND PRE-EVACUATION PROCEDURES





# **PHASE 1: CARE UNDER FIRE / THREAT**

### RETURN FIRE AND TAKE COVER



<u>NEVER</u> ATTEMPT to rescue a casualty until hostile fire is **suppressed** 



Using available resources, **ensure scene safety**  DIRECT CASUALTY TO REMAIN ENGAGED

HAVE CASUALTY MOVE TO COVER AND APPLY SELF-AID (*if able*)

KEEP CASUALTY FROM SUSTAINING ADDITIONAL WOUNDS

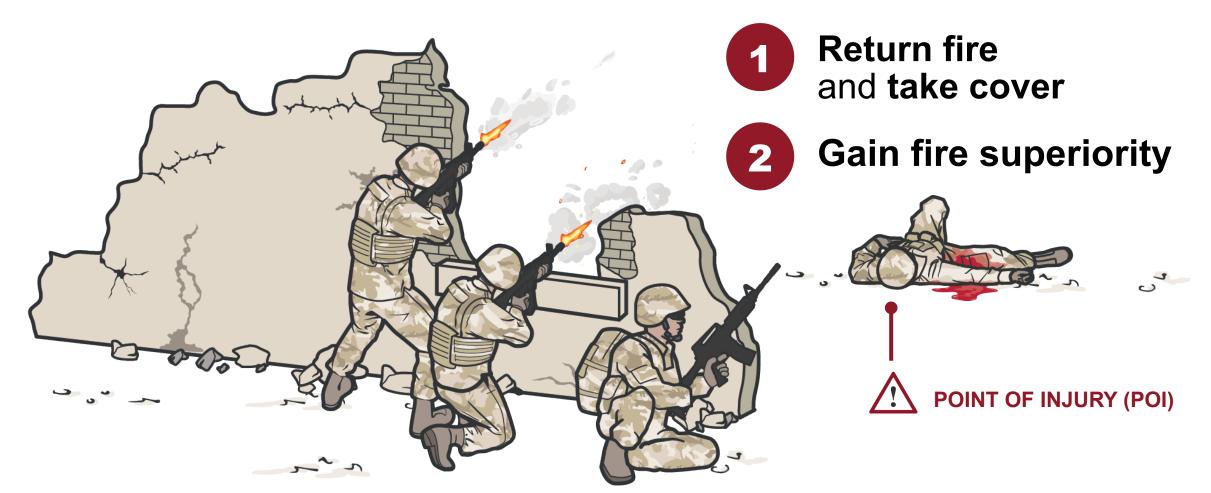
### STOP LIFE-THREATENING EXTERNAL HEMORRAGE

*(if tactically feasible)* 

HAVE UNIT PERSONNEL MOVE CASUALTY TO COVER (if casualty is unable to move)



#### ROLE OF FIRE SUPERIORITY THREAT CONTAINMENT









#### FIRE SUPERIORITY CASUALTY CARE PRINCIPLES



**ORDER OF ACTIONS** will be dictated by the situation

#### SCENE SAFETY

**CASUALTY MOVEMENT** direct casualty to move to cover and apply self-aid

Stop LIFE-THREATENING EXTERNAL HEMORRHAGE

**PROPER COMMUNICATION** with casualty and other personnel in the immediate area





### CARE UNDER FIRE / THREAT TREATMENT PRIORITIES AND ACTIONS



### **CASUALTY EXTRACTION**



#### Apply tourniquet to control LIFE-THREATENING EXTERNAL HEMORRHAGE



### **CASUALTY MOVEMENT**

Drag or carry based on tactical situation







### CARE UNDER FIRE / THREAT TREATMENT PRIORITIES AND ACTIONS (CONT.)

#### CASUALTIES SHOULD BE EXTRACTED AND MOVED

to places of relative safety



DO WHAT IS NECESSARY TO STOP THE BURNING PROCESS!







**IMPORTANT** CONSIDERATION:

Continuously assess risks and make a plan before moving a casualty



#### CASUALTY SELF-AID WHEN ABLE TO MOVE





# **Direct** casualty to return fire, **if able**

Have casualty move to cover and apply self-aid





### **IF CASUALTY IS UNABLE TO MOVE**

**IF CASUALTY IS UNABLE TO MOVE** to cover, when **tactically feasible** (ideally, fire has been **SUPPRESSED** and fire superiority has been **gained**), devise and execute a plan to get them out of the kill zone

Consider using items such as rope and dragging straps to avoid making responders leave cover to care for the casualty





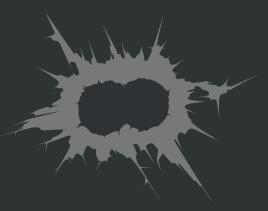




# **ASSIVE BLEEDING**

# in CARE UNDER FIRE

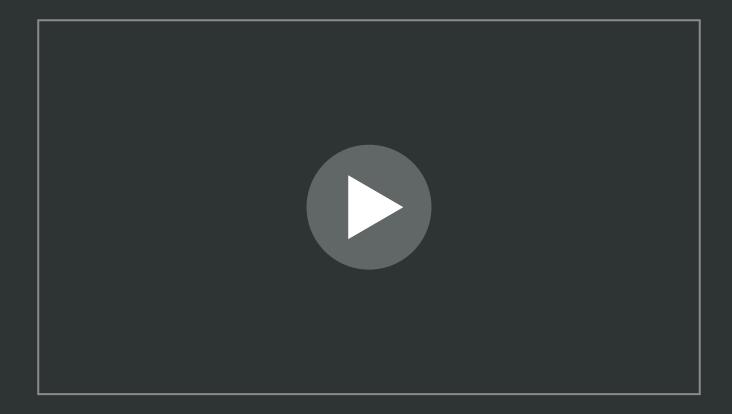








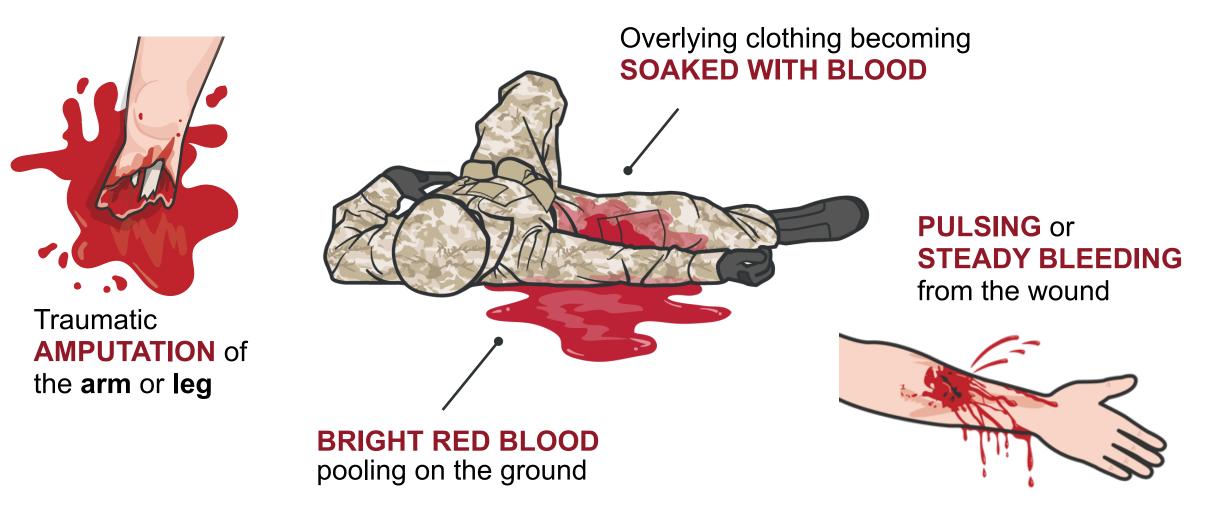
### **CARE UNDER FIRE OVERVIEW**







#### IDENTIFY LIFE-THREATENING BLEEDING VISUAL BLOOD SWEEP



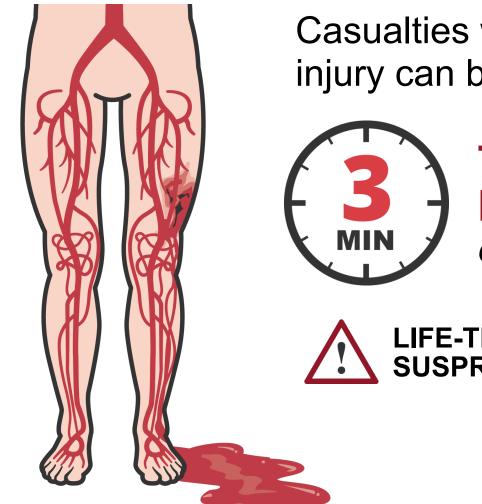




### TIME TO BLEED OUT

### How long does it take to **BLEED TO DEATH** from a **MAJOR ARTERY**?





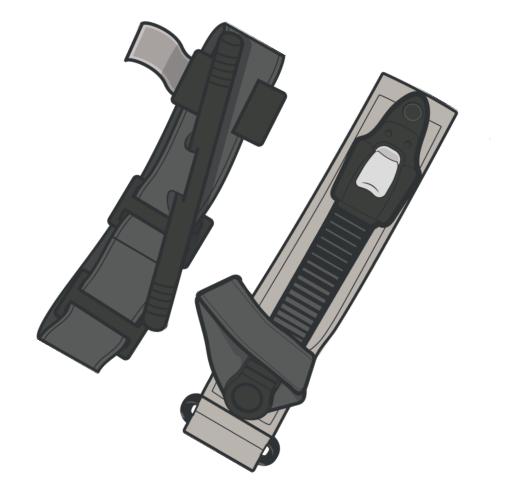
Casualties with such an injury can bleed to death in



LIFE-THREATENING BLEED SUSPRECTED, TREAT IT!



#### TOURNIQUET APPLICATION CRITICAL POINTS



TQ used to control massive or lifethreatening hemorrhage on extremities

TQs are **effective** and can be **applied quickly** 

TQs are the most important lifesaving item in the JFAK and should be kept near the top of your Aid Bag

Always use the casualty's TQ first

JOINT TRAUMA SYSTI



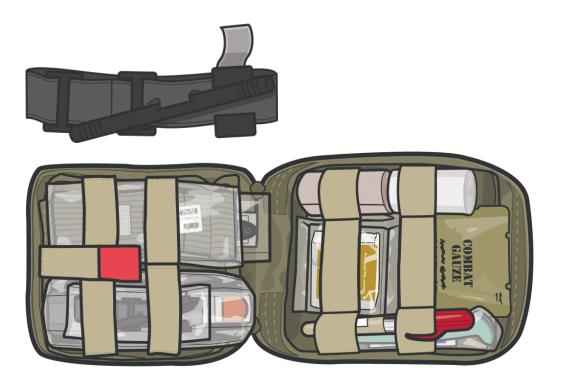
#### KNOW WHERE TO FIND A TOURNIQUET

### **QUICK ACCESS IS KEY!**

**DON'T** leave your TQ at the bottom of your pack!

### **CASUALTY'S JFAK FIRST**

- When helping a casualty, use the **TQ** in the **casualty's JFAK first**
- If the casualty is **missing** their **TQ**, then use the **next available option**
- As a CMC, you're expected to have immediate access to medical equipment



### **INDIVIDUAL** Joint First Aid Kit (JFAK)

JOINT TRAUMA SYSTE





#### SELF-APPLICATION, ONE-HANDED TOURNIQUET



### **ONE-HANDED APPLICATION**

The one-handed application is normally used to apply a *CoTCCC-recommended* windlass or ratchet TQ to the **upper extremity** 

### WINDLASS and RATCHET TQs

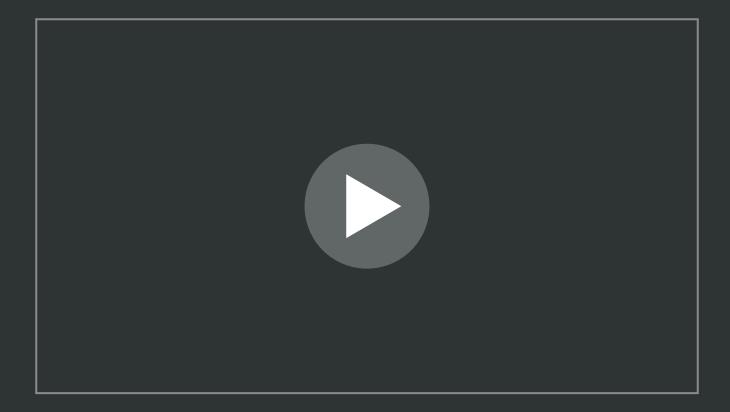
Use the **windlass or ratchet** TQ from the JFAK

They are **effective** and can be **applied quickly** 





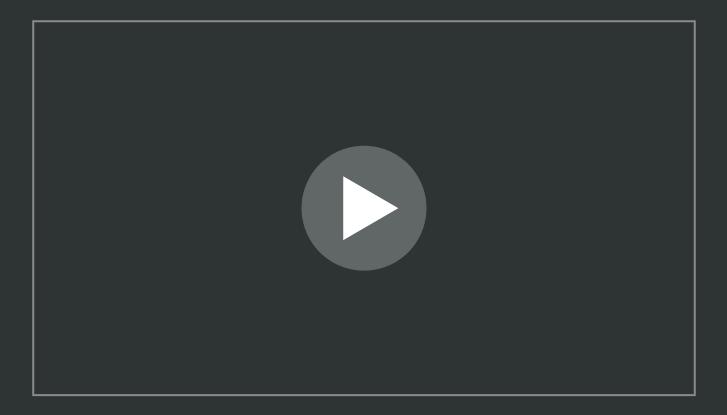
#### ONE-HANDED WINDLASS TOURNIQUET APPLICATION







# ONE-HANDED RATCHET TOURNIQUET APPLICATION







#### CASUALTY SUPPORT WHEN UNRESPONSIVE OR UNABLE TO MOVE



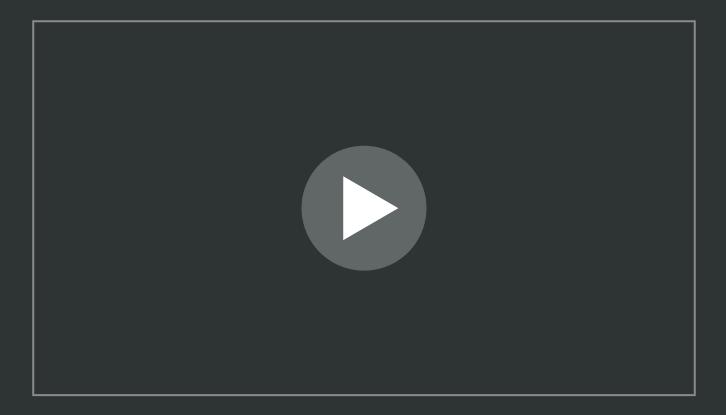
EXERCISE CAUTION in approaching the casualty to avoid creating additional casualties







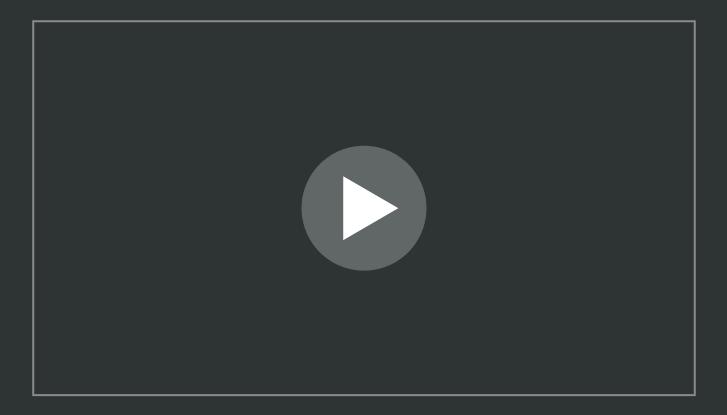
# TWO-HANDED WINDLASS TOURNIQUET APPLICATION







# TWO-HANDED RATCHET TOURNIQUET APPLICATION







# **SKILL STATION** CUF Tourniquet Skills



One-handed (windlass) TQ Application in CUF



One-handed (ratchet)



Two-handed (windlass) TQ Application in CUF

Two-handed (ratchet) TQ Application in CUF





#### DRAGS AND CARRIES CRITICAL OBJECTIVES

If you must move in CUF, quickly develop a casualty movement rescue plan

From the point of injury, you must move the casualty to the closest position of cover

Once bleeding is controlled, move the casualty to cover using a one- or two-person drag/carry

When moving casualties, spinal injuries are not a priority during CUF





## **ONE-PERSON DRAGS AND CARRIES**



#### **KIT OR ARM DRAG**

Grab the **complete kit** or use the body armor **drag handle**, no additional equipment is required

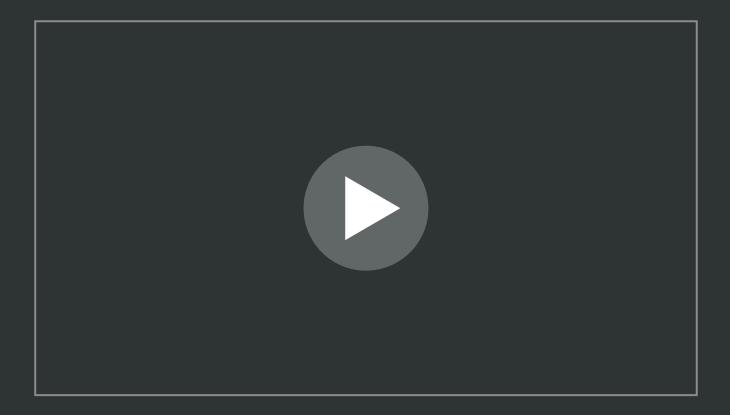
#### **NECK DRAG**

**Best option** for limiting the casualty and rescuer from enemy fire exposure





### ONE PERSON CASUALTY DRAG/CARRY







### **TWO-PERSON DRAGS AND CARRIES**



#### TWO-PERSON SUPPORTING CARRY

Can be used in transporting both conscious and unconscious casualties

### **KIT OR ARM DRAG**

Can cause injury to either the rescuer or casualty; keep safety in mind

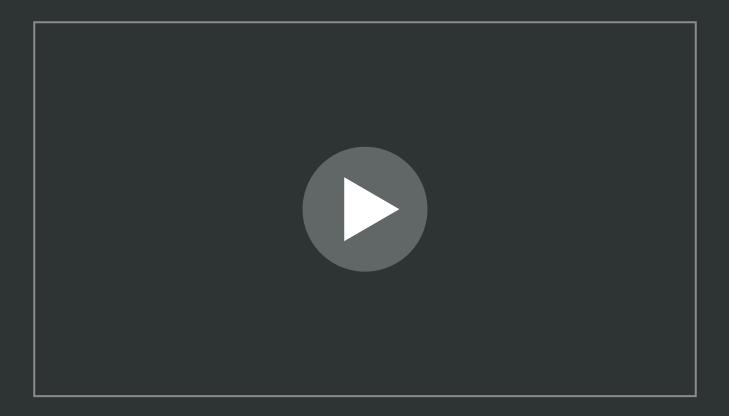
#### FORE AND AFT CARRY

Exposes both rescuers and casualty to hostile fire





### TWO PERSON CASUALTY DRAG/CARRY







# SKILL STATION Drag/Carry Skills



One-person Drag/Carry



Two-person Drag/Carry





# SUMMARY

What is CARE UNDER FIRE?
The importance of FIRE SUPERIORITY
Casualty TREATMENT PRIORITIES in CUF
MASSIVE HEMORRHAGE CONTROL in CUF
CASUALTY MOVEMENT in CUF,
including the advantages and disadvantages of one- and two-person drag/carry methods





# **CHECK ON LEARNING**

### What is CUF?

What are the signs of life-threatening bleeding?



How long does it take to bleed to death from a complete femoral artery and vein disruption?



What are the advantages and disadvantages of one-person drags?



What are the advantages and disadvantages of two-person carries?





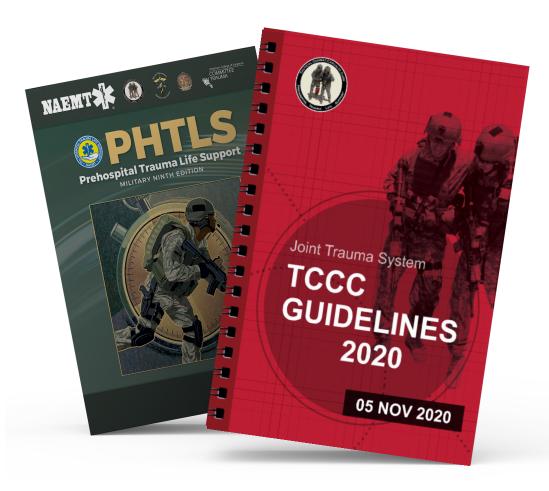
# ANY QUESTIONS?







# REFERENCES



#### **TCCC: Guidelines** by JTS/CoTCCC

The latest edition is dated 05 November 2020. These guidelines, updated regularly, are the result of decisions made by CoTCCC in exploring evidence-based research on best practices.

**PHTLS: Military Edition** by NAEMT

Prehospital Trauma Life Support (PHTLS), Military Edition, teaches and reinforces the principles of rapidly assessing a trauma patient using an orderly approach.