

CLS

TCCC

**ALL SERVICE MEMBERS
TACTICAL COMBAT CASUALTY CARE**

COURSE MAP

25 JAN 2020



**Committee on
Tactical Combat
Casualty Care
(CoTCCC)**

COURSE MAP

This 40-hour course has been planned over a five-day period but may also be delivered in a modular fashion over a longer period of time or embedded within existing training. As shown below, the first four days cover 20 modules of didactic materials and associated skills (with optional skills assessment opportunities). Day 5 allows for skills and knowledge assessment. The final day includes a culminating Tactical Trauma Assessment (TTA), a summative formal multiple-choice assessment, and opportunities for remediation/reassessment. After the assessment, there is a trainer-led debriefing and a course critique (to be completed by students and trainers).

The following **Course Map** is structured based on Fink’s five principles of curriculum design (Fink, 2013). The goal is to develop learning experiences that are structured in such a way that they scaffold students’ thinking using a whole-part-whole educational strategy and progressively move them toward the desired course outcomes.

DAY 1 (~40-hour course, Days 1–4 (32 hrs.), Day 5 Assessment Only (8 hrs.)			
WELCOME – 10 MIN			
DIDACTIC	SKILL	VIDEO	
30 MIN	-	(5:54)	MODULE 1: Principles and Application TCCC (T1:E1, T2:E2-8)
		5:54	General Welcome and Course Layout Introduction (slide) Introduction to Tactical Combat Casualty Care-Combat Lifesaver (TCCC-CLS) <i>- Intro to TCCC video</i> Intro to TCCC Concepts (slides) <ul style="list-style-type: none"> • Three Phases of Care • Roles and responsibilities of nonmedical service members
10 MIN	30 MIN	N/A	MODULE 2: Medical Equipment (T3:E9-13)
			<ul style="list-style-type: none"> • Use of a first aid kit • Maintenance and resupply • Joint First Aid Kit (JFAK) equipment list • CLS kit equipment list Use of the components of the JFAK and CLS kits SKILL STATION – (familiarization with JFAK and CLS Kit)
30 MIN	90 MIN	(14:45)	MODULE 3: Care Under Fire (T4:E14-22)
		4:41	Care Under Fire (CUF) Concepts (slides) <ul style="list-style-type: none"> - <i>CUF Overview video</i> • CUF equipment • Fire superiority/threat containment/impact of tactical environment • Prevention of harm or additional casualties • Actions/priorities to treat/move casualties • Early application of tourniquet(s) (TQs) in CUF • Principles, advantages, and disadvantages of one-person drag/carry or two-person drag/carry in CUF CUF Tourniquet (skills) <ul style="list-style-type: none"> • One-Handed (Windlass) TQ Application in CUF <ul style="list-style-type: none"> - <i>One-Handed Windlass TQ video</i> • One-Handed (Ratchet) TQ Application in CUF <ul style="list-style-type: none"> - <i>One-Handed Ratchet TQ video</i> • Two-Handed (Ratchet) TQ Application in CUF <ul style="list-style-type: none"> - <i>Two-Handed Ratchet TQ video</i>
		1:15	
		1:08	
		1:02	

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		1:15 3:42 2:22	<ul style="list-style-type: none"> Two-Handed (Windlass) TQ Application in CUF - <i>Two-Handed Windlass TQ video</i> Drags & Carries (skills) <ul style="list-style-type: none"> One-Person Drag/Carry - <i>One-Person Drag/Carry videos</i> Two-Person Drag/Carry - <i>Two-Person Drag/Carry videos</i>
			SKILL STATIONS – PRACTICE
			SKILL STATIONS – INDIVIDUAL SKILLS EVALUATION (optional)
30 MIN	20 MIN	-	MODULE 4: Principles and Application of Tactical Field Care (TFC) (T5:23-28)
			TFC Concepts (slides) <ul style="list-style-type: none"> TFC equipment Security and safety in TFC Communication Triage Casualty Extraction
			SKILL STATIONS – PRACTICE (communication of casualty info)
			SKILL STATIONS – INDIVIDUAL SKILLS EVALUATION (optional)
30 MIN	30 MIN	(16:40)	MODULE 5: Tactical Trauma Assessment (T6:E29-36)
		6:19 5:56 4:25	TTA (slides) <ul style="list-style-type: none"> <i>Tactical Trauma Assessment How-To video</i> <i>Combat Speed TTA "Fire Fight Conscious Casualty" video</i> <i>Combat Speed TTA "Explosion" Unconscious Casualty video</i> <ul style="list-style-type: none"> Assessment of responsiveness Causes of Altered Mental Status (AMS) Disarming and securing communication equipment in casualties with AMS Communication Body Substance Isolation (BSI) MARCH PAWS sequence Pulse and Respiration Assessment (overview)
			TRAINER-LED DEMO of Tactical Trauma Assessment
DAY 2			
30 MIN	120 MIN	(19:46)	MODULE 6: Massive Hemorrhage Control in TFC (T7:E37-44)
		2:56	Massive Hemorrhage Control in TFC Concepts (slides) <ul style="list-style-type: none"> <i>Massive Hemorrhage Control in TFC video</i> <ul style="list-style-type: none"> Identification of life-threatening hemorrhage Early application of TQs in TFC Pressure points to control bleeding (direct/indirect) Improvised limb TQ – Risks Re-evaluation of previously placed TQs Junctional hemorrhage control TFC Hemorrhage Control (skills) <ul style="list-style-type: none"> Two-Handed (Ratchet) Tourniquet Application in TFC - <i>Two-Handed Ratchet TQ TFC video</i> Two-Handed (Windlass) Tourniquet Application in TFC - <i>Two-Handed Windlass TQ TFC video</i> Wound Packing with Hemostatic Dressing and Pressure Bandage - <i>Pressure Dressing video</i>
		1:27	
		1:45	
		2:18	

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		3:37	<ul style="list-style-type: none"> • Neck Junctional Hemorrhage Control <ul style="list-style-type: none"> - <i>Neck Junctional Hemorrhage Control video</i>
		3:30	<ul style="list-style-type: none"> • Axillary (Armpit) Junctional Hemorrhage Control <ul style="list-style-type: none"> - <i>Axillary Junctional Hemorrhage Control video</i>
		5:33	<ul style="list-style-type: none"> • Inguinal (Groin) Hemorrhage Control w/ Improvised Junctional Pressure Delivery Device (PDD) <ul style="list-style-type: none"> - <i>Inguinal Improvised Junctional Dressing with PDD video</i>
			SKILL STATION – PRACTICE
			SKILL STATION – INDIVIDUAL SKILLS EVALUATION (optional)
30 MIN	60 MIN	(9:56)	MODULE 7: Airway Management in TFC (T8:E45-49)
		3:15	Airway Concepts (slides) <ul style="list-style-type: none"> - <i>Head-Tilt/Chin-Lift and Jaw-Thrust Maneuver video</i> • Airway obstruction (signs/symptoms) • Airway maneuvers and recovery position (description, when to use) • NPA (what is it) • Bag Valve Mask techniques (description) Airway (skills) <ul style="list-style-type: none"> • Head-Tilt/Chin-Lift • Jaw-Thrust Maneuver • Recovery Position • Nasopharyngeal Airway (NPA)
		3:00	<ul style="list-style-type: none"> - <i>NPA How-To video</i> • One-Person Bag Valve Mask (BVM)/Two-Person BVM
		3:41	<ul style="list-style-type: none"> - <i>One-Person BVM and Two-Person BVM How-To video</i>
			SKILL STATION – PRACTICE
			SKILL STATION – INDIVIDUAL SKILLS EVALUATION (optional)
30 MIN	60 MIN	(12:51)	MODULE 8: Respiration Assessment and Management in TFC (T9:E50-58)
		4:03	Respiration Concepts (slides) <ul style="list-style-type: none"> - <i>Respiration Assessment and Management in TFC Overview video</i> • Respiratory distress (sign/symptoms) • Life-threatening chest injury (signs/symptoms) • Open pneumothorax (sign/symptoms) • Vented vs. nonvented chest seals • Tension pneumothorax (sign/symptoms/initial treatment) • Needle decompression of the chest (what is it/indications) • Recurring tension pneumothorax Respiration (skills) <ul style="list-style-type: none"> • Needle Decompression of Chest (NDC) <ul style="list-style-type: none"> - <i>NDC How-To video</i> • Chest Seal <ul style="list-style-type: none"> - <i>Chest Seal How-To video</i>
		4:25	
		4:23	
			SKILL STATION – PRACTICE (chest seal, NDC, and respiratory rate measurement – refer to Module 18 skill instruction and skill assessment checklist on respiratory rate measurement as needed)
			SKILL STATION – INDIVIDUAL SKILLS EVALUATION (optional)
20 MIN	30 MIN	(2:56)	MODULE 9: Circulation/Hemorrhage Control in TFC (T10:E59-62)
		2:56	Circulation/Hemorrhage Control Concepts (slides) <ul style="list-style-type: none"> - <i>Hemorrhage Control in TFC Overview video</i> • Principles of wound packing and applying pressure bandages

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			<ul style="list-style-type: none"> Strategies, indications, and limitations of controlling external hemorrhage in TFC Pelvic fractures (signs/symptoms/considerations) <p>Circulation/Hemorrhage Control (skills)</p> <ul style="list-style-type: none"> Wound Packing with Hemostatic Dressing and Pressure Bandage
			SKILL STATION – PRACTICE (refer to Module 6 skill instruction and skill assessment checklist on wound packing/pressure bandage as needed)
			SKILL STATION – INDIVIDUAL SKILLS EVALUATION (optional)
DAY 3			
20 MIN	-	(1:45)	MODULE 10: Shock Recognition (due to massive hemorrhage) (T11:E63-64)
		1:45	<p>Circulation/Shock Concepts (slides)</p> <ul style="list-style-type: none"> Shock Recognition Overview video Shock (sign/symptoms) Shock (management of shock in life-threatening bleeding) Shock – importance of level of consciousness and radial pulse as indicators of shock
20 MIN	20 MIN	(1:21)	MODULE 11: Hypothermia Prevention (T12:E65-67)
		1:21	<p>Hypothermia Prevention Concepts (slides)</p> <ul style="list-style-type: none"> Hypothermia Prevention Overview video Strategies, indications, and limitations of hypothermia prevention Hypothermia prevention (passive vs. active) <p>Hypothermia (skills)</p> <ul style="list-style-type: none"> Active external warming hypothermia prevention
			SKILL STATION – PRACTICE (shock recognition and hypothermia)
			SKILL STATION – INDIVIDUAL SKILLS EVALUATION (optional)
20 MIN	15 MIN	(4:21)	MODULES 12 and 13: Head and Eye Injuries (T13:E68-70) (T14:E71-72)
		3:06	<p>Head Injury Concepts (slides)</p> <ul style="list-style-type: none"> External forces that can cause head injuries Head Injury (signs/symptoms) Critical observations to be reported in a suspected head injury
		1:15	<p>Eye Injury Concepts (slides)</p> <ul style="list-style-type: none"> Eye Injuries Overview video Basic care of eye injuries Application of a rigid eye shield (concepts) <p>Rigid Eye Shield (skills)</p> <ul style="list-style-type: none"> Rigid Eye Shield How-To video
			SKILL STATION – PRACTICE (eye shield)
			SKILL STATION – INDIVIDUAL SKILLS EVALUATION (optional)
15 MIN	15 MIN	(3:36)	MODULES 14: Pain Medications and Antibiotic Administration (T15:E73-75) (T16:E76-77)
		1:35	<p>Analgesia (Pain Medications) Concepts (slides)</p> <ul style="list-style-type: none"> Analgesia Administration Overview video Analgesia (considerations and indications in TFC) Indications, contraindications, and administration of pain medications in TFC
		1:47	<p>Antibiotics Concepts (slides)</p> <ul style="list-style-type: none"> Antibiotics Overview video

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			<ul style="list-style-type: none"> • Early antibiotic administration in TFC • Indications, contraindications, and administration of antibiotics in TFC <p>Analgesia/Antibiotics (skills)</p> <ul style="list-style-type: none"> • Combat Wound Medication Pack (CWMP) - <i>Combat Wound Medication Pack</i>
		:54	
			SKILL STATION – PRACTICE (CWMP)
			SKILL STATION – INDIVIDUAL SKILLS EVALUATION (optional)
DAY 4			
20 MIN	-	-	MODULE 15 Wound Management (T17:E78-79)
			<p>Wound Management Concepts (slides)</p> <ul style="list-style-type: none"> • Wound Management in TFC (check for additional non-life-threatening wounds) • Application of wound dressings in TFC
			SKILL STATION – PRACTICE (Note: Refer to Module 6 skill instruction and skill assessment checklist on wound packing/pressure bandage as needed.) (optional)
			SKILL STATION – INDIVIDUAL SKILLS EVALUATION (optional)
20 MIN	10 MIN	(4:31)	MODULE 16 Burns (T18:80-84)
		4:31	<p>Burn Concepts (slides)</p> <ul style="list-style-type: none"> - <i>Burns Overview video</i> • Scene safety specific to burns • Burn classification • Rule of Nines • Techniques to prevent heat loss to a severe burn <p>Burns (skills)</p> <ul style="list-style-type: none"> • Application of a dry dressing to a burn casualty
			SKILL STATION – PRACTICE (burn dressings)
			SKILL STATION – INDIVIDUAL SKILLS EVALUATION (optional)
20 MIN	20 MIN	(5:24)	MODULE 17: Fractures/Splinting (T19:E85-87)
		5:24	<p>Fractures – Concepts (slides)</p> <ul style="list-style-type: none"> • Signs of a suspected fractures • Basic care of fractures • Splints – overview of concepts <p>Splints (skills)</p> <ul style="list-style-type: none"> • Splint application - <i>Splinting How-To video</i>
			SKILL STATION – PRACTICE (splinting)
			SKILL STATION – INDIVIDUAL SKILLS EVALUATION (optional)
10 MIN	30 MIN	(4.92)	MODULE 18: Casualty Monitoring (T18:E88-89)
		2:53 2:39	<p>Casualty Monitoring Concepts (slides/skills)</p> <ul style="list-style-type: none"> - <i>AVPU video</i> - <i>Assessing Pulses How-To video</i> • Assess level of consciousness • Assess radial pulse • Assess carotid pulse • Assess posterior tibial and dorsalis pedis pulses • Assess respiratory rate • Reassess all previous interventions
			SKILL STATION – PRACTICE

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			(AVPU, radial/carotid/posterior tibial pulses, respiratory measurement)
			SKILL STATION – INDIVIDUAL SKILLS EVALUATION (optional)
20 MIN	20 MIN	(3:23)	MODULE 19: Pre-evacuation Procedures, Communication, and Documentation (T21:E90-93) (T22:E94-95)
		4:23 3:00	Pre-evacuation Procedures, Communication, and Documentation Concepts <ul style="list-style-type: none"> • Communication with evacuation assets and/or receiving facilities • Evacuation requests (requirements and format) • Evacuation prioritization • TACEVAC (load and go) vs. MEDEVAC • *9-Line Report <i>Note: lines 1-5</i> • *MIST Report (full MIST report) • Documentation – DD Form 1380 Communication and Documentation (skills) <ul style="list-style-type: none"> - DD Form 1380 video - 9-Line and Mist Report video
			SKILL STATION – PRACTICE (DD Form 1380 and 9-Line)
			SKILL STATION – INDIVIDUAL SKILLS EVALUATION (optional)
20 MIN	180 MIN		MODULE 20: Evacuation Procedures (T23:96-103)
			Evacuation Procedures – Concepts (slides/skills) <ul style="list-style-type: none"> • Staging for evacuation • Pre-mission evacuation equipment preparation and rehearsal • Evacuation of casualties with suspected spinal cord injuries • Preparation of casualties for evacuation • Litter selection and evacuation equipment in TFC • Evacuation of ambulatory casualties in TFC • AAR submission • *9-Line Report <i>Note: lines 6-9</i>
			SKILL STATION – PRACTICE (Casualty Preparation for Evacuation)
			SKILL STATION – INDIVIDUAL SKILLS EVALUATION (optional)
			Tactical Trauma Assessment SKILL STATIONS – STUDENT PRACTICE in preparation for Final Casualty Assessment on Day 5
TOTAL COURSE TIME:		~32 hours	DAYS 1-4
DAY 5 – ASSESSMENT			
CASUALTY ASSESSMENT (Scenario-based Tactical Trauma Assessment w/ Intervention – Culminating Exercise)			
REMIEDIATION AND RE-EVALUATION			
SUMMATIVE FORMAL MULTIPLE-CHOICE ASSESSMENT			
DEBRIEF AND COURSE CONCLUSION			
STUDENT/TRAINER COURSE CRITIQUE			
ASSESSMENT COURSE TIME:		~8 hours	DAY 5
~40-hour course over 5 days			

Reference:

Fink, L. D. (2013). *Creating significant learning experiences: An integrated approach to designing college courses*, revised and updated. San Francisco, CA: Jossey-Bass.

Developed by the
JOINT TRAUMA SYSTEM

part of the



DEFENSE HEALTH AGENCY