TACTICAL EMERGENCY MEDICAL SUPPORT (TEMS)

COURSE OVERVIEW AND INSTRUCTIONAL GOALS

COURSE LENGTH: 32 Hours (4 Days)
16 Hours Classroom
16 Hours Practical

COURSE OVERVIEW

The course will incorporate lectures, practice, and scenario based training to provide emergency medical providers with the foundation principles, practices, and skills necessary for providing medical support to law enforcement operations. The emphasis will be on medical models and skills effective for supporting special operations teams during high-risk, large scale, and extended operations. The concepts and skills taught in this course are also relevant to all law enforcement operations.

INSTRUCTIONAL GOALS

Upon completion of this course the attendee will be familiar with:

1. The mission driven character of law enforcement operations and discuss how supporting law enforcement operations differs from regular EMS operations.
2. Providing emergency medical providers with the skills needed to effectively reduce the probability of potentially preventable injury, death and disability during law enforcement operations.
3. Various approaches to further mission success by maintaining team health and wellness and preventing performance decrement associated with short cycle and extended missions.
4. Methods and strategies useful to provide medical training for all police officers engaged in patrol and other law enforcement operations.
# TACTICAL EMERGENCY MEDICAL SUPPORT (TEMS)

## DAY TO DAY / HOUR TO HOUR AGENDA

### DAY 1

<table>
<thead>
<tr>
<th>Hours</th>
<th>Instruction:</th>
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<tbody>
<tr>
<td>0800-0830</td>
<td>Registration / Introductions/Safety Brief (D)</td>
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<tr>
<td>0830-0900</td>
<td>History, Justification and Team Start Up (D)</td>
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<tr>
<td>0900-0915</td>
<td>Break</td>
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<tr>
<td>0915-0945</td>
<td>TECC Methodologies (D)</td>
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<tr>
<td>0945-1015</td>
<td>Critical Interventions - Part I (D)</td>
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<td>1015-1030</td>
<td>Break</td>
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<tr>
<td>1030-1100</td>
<td>Critical Interventions - Part II (D)</td>
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<tr>
<td>1100-1130</td>
<td>Patient Assessment (D)</td>
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<tr>
<td>1130-1230</td>
<td>Lunch (on your own)</td>
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<tr>
<td>1230-1300</td>
<td>Tourniquet Drill Overview (D)</td>
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<tr>
<td>1300-1330</td>
<td>Tourniquet Drill Practice (S)</td>
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<tr>
<td>1330-1545</td>
<td>Skills Stations (45 min rotations) (S)</td>
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<tr>
<td></td>
<td>• Station 1: Patient Assessment/TQ Optimization/Wound Packing/Pelvic Binders</td>
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<td></td>
<td>• Station 2: Airway &amp; Chest Interventions/Tools/Basic BVM w-adjuncts</td>
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<tr>
<td>1545-1600</td>
<td>Break</td>
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<tr>
<td>1600-1645</td>
<td>Blast Trauma (D)</td>
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<tr>
<td>1645-1655</td>
<td>Day in Review-Logistics for Day 2 and Online Testing Instructions</td>
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<tr>
<td>1655-1700</td>
<td>Squad Leader back brief to Instructors</td>
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### DAY 2

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<tr>
<th>Hours</th>
<th>Instruction:</th>
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<tr>
<td>0800-0805</td>
<td>Roll Call / Questions (D)</td>
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<tr>
<td>0805-0845</td>
<td>Medical Mission Planning/ MTA Practical Briefing (D)</td>
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<tr>
<td>0845-0915</td>
<td>Triage and Casualty Collection Points (D)</td>
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<tr>
<td>0915-0930</td>
<td>Break</td>
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<tr>
<td>0930-1000</td>
<td>Team Wellness and Human Performance (D)</td>
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<tr>
<td>1000-1030</td>
<td>Considerations for Extended Operations (D)</td>
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<tr>
<td>1030-1100</td>
<td>Asymmetrical Rescue (D)</td>
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<tr>
<td>1100-1130</td>
<td>Legal Considerations in TEMS (D)</td>
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<tr>
<td>1130-1230</td>
<td>Lunch (on your own)</td>
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</table>
1230-1305 Tactical Considerations for the TEMS Provider (D)
1305-1315 Tactical Medic Team Leader Interface (D)
1315-1345 Excited Delirium
1345-1400 Safety Checks
1400-1600 Skill Stations (40 minute rotations)
  • Station 1: Drags, Carries and Assists (Extraction Devices)
  • Station 2: Remote Assessment/Triage/CCP Considerations
  • Station 3: Zone of Resuscitation/Critical Interventions
1600-1615 Break (mandatory hydration)
1615-1645 Case Reviews
1645-1655 Day in Review – Logistics for Day 3
1655-1700 Squad Leader back brief to Instructors

DAY 3
Hours: Instruction:
0800-0805 Roll Call/Questions
0805-0845 Ortho Assessment and TX of the Tactical Athlete (D)
0845-0915 Civil Disturbances and Less Lethal Considerations (D)
0915-0930 Break – Mandatory Hydration
0930-0945 Safety Checks
0945-1230 Skill Stations - Medicine by Mission (S) 45 Minute Rotations)
  • Station 1: Active Shooter/Asymmetrical Rescue
  • Station 2: Open Area Rescue/APC Load outs
  • Station 3: High Risk Warrant Service/Immediate Action Drills
1230-1330 Lunch (on your own)
1330-1345 Safety Checks (mandatory hydration)
1345-1600 Skills Stations (S) - Putting it all Together (45 Minute Rotations)
  • Station 1: Active Shooter/Asymmetrical Rescue
  • Station 2: Open Area Rescue/APC Load outs
  • Station 3: High Risk Warrant Service/Immediate Action Drills
1600-1645 Mission Planning Practical Exercise
1645-1655 Day in Review – Logistics Day 4
1655-1700 Squad Leader Brief Back to Cadre
DAY 4

Instruction:

0800-0805 Roll Call / Questions
0805-0900 Online Test Review (D)
0900-0945 Individual Skill/Decision Making Assessments (S)
0945-1000 Equipment Inventory and Issue – Mandatory Hydration
1000-1015 Safety Checks/Inspection of Training Environments
1015-1130 Final Teaching Stations (S)

Rotation 1 (45 Minute Rotation)
- Station 1: Active Shooter
- Station 2: Open Area Rescue
- Station 3: High Risk Warrant Service

1130-1230 Lunch (on your own)
1230-1245 Safety Checks/Inspection of Training Area/Mandatory Hydration
1245-1445 Final Teaching Stations (S)

Rotation 2 (60 Minute Rotation)
- Station 1: Active Shooter
- Station 2: Open Area Rescue
- Station 3: High Risk Warrant Service

1445-1500 Break/Mandatory Hydration
1500-1600 Final Teaching Stations (S)

Rotation 3 (60 Minute Rotation)
- Station 1: Active Shooter
- Station 2: Open Area Rescue
- Station 3: High Risk Warrant Service

1600-1630 Personnel/Team Equipment Accountability and turn in
1630-1645 Course Summation and Debrief
1645-1700 Evaluations and Graduation
I. Preface
   A. Course Overview
   B. Instructional Goals
   C. Agenda
   D. Outline
   E. Co-host Logistics
   F. Student Equipment List
   G. Instructor Manuals
   H. NTOA Logistics
   I. Student Notebook

II. History, Justification and Team Start up
   A. Timeline of Evolution
   B. Established Standard of Care
   C. Justification for Start Up
   D. Case Law impacting TEMS
   E. Scope of Practice
   F. Team Composition
   G. Sustainment

III. TECC History and Methodologies
   A. Evolution of Military Trauma Management
   B. Emerging Threats and Events
   C. Paradigm shift in priorities of care
   D. Tactical Emergency Casualty Care (TECC)
   E. Threat Based Guidelines
   F. Cognitive Thinking
   G. Casualties / Mission Merger

IV. Patient Assessment
   A. Evidence Based Priorities
   B. Provider, Patient and Team Safety
   C. MARCH vs. BATH
   D. Systematic Assessment with Interventions
   E. Focused Re-assessment
V. Patient Assessment Practice
   A. Skill Stations

VI. Critical Interventions
   A. Evidence Based Interventions
   B. Emerging Concepts in Trauma
   C. Underlying Physiology
   D. Lethal Triad
   E. Modality Optimization
   F. Evaluating Interventions

VII. Critical Interventions Practice
     A. Skill Stations

VIII. Blast Trauma
      A. Mechanism of Injury
      B. Evidence Based Priorities
      C. Casualty Patterns
      D. Blast Nomenclature
      E. Specific System Insult
      F. Treatment Modalities

IX. Medical Mission Plan and Threat Assessment (MTA)
    A. Medical Intelligence
    B. Merger of Missions
    C. Operational Phases
    D. MTA Considerations
    E. Standardized Templates
    F. Operational Security
    G. Team Briefing

X. Human Performance
   A. Effects of Fatigue on Performance
   B. Survival Stress Recognition
   C. Stress Reactions
   D. Understanding Mental Stalls
   E. Sleep Deprivation
   F. Sick Call Considerations
   G. Countermeasures

XI. Care of the Working Canine
    A. Types of Working Dogs
    B. Handler Interaction
    C. Common Injuries / Illnesses
    D. Critical Interventions
    E. Equipment Selection
    F. Medication Dosing
G. Global Resources

XII. Asymmetric Rescue
   A. Historical Perspective
   B. Lessons Learned
   C. Threats by Mission
   D. Tool Considerations
   E. Horizontal and Vertical Extraction

XIII. Triage and CCP Practice
   A. Skill Stations

XIV. Excited Delirium (ExDS)
   A. Define ExDS
   B. Case Studies
   C. Typical Presentation
   D. Period of Peril
   E. Best Practices

XV. Tactics 101
   A. Mission Driven Tactics
   B. Safety Priorities
   C. Deployment Considerations
   D. Team Leader / Medic Interface
   E. Casualty Collection Points
   F. Rescue Task Force (RTF) vs TEMS

XVI. Orthopedic Assessment of Tactical Athlete
   A. Common Injuries
   B. Underlying Anatomy / Physiology
   C. Equipment Recommendations
   D. Treatment Considerations
   E. Determining Operational Status

XVII. Civil Disturbance and Less Lethal Consideration
   A. TEMS Role
   B. Unique Threats and Environment
   C. Safety Equipment
   D. Medical Intelligence
   E. Less Lethal Options
   F. Mechanism of Injury
   G. Medical Interventions

XVIII. Putting the Pieces Together
   A. Skill Stations

XIX. Mission Planning Practical
   A. Class Exercise
XX. Student Evaluations  
   A. Written Test  
   B. Individual Skills Assessment  

XXI. Scenario Execution by Mission  
    A. Class Exercise
TACTICAL EMERGENCY MEDICAL SUPPORT (TEMS)

CO-HOST LOGISTIC REQUIREMENTS

CLASSROOM

Adequate seating for up to 34 students with tables, good ventilation
Marker board and markers
Flip chart with paper
Breakout areas with table for four skill stations
Self-Sticking Large Easel Pad

AUDIO VISUAL

LCD Projector for computer presentation
Large projection screen (minimum of 6’x6’ screen size)
Speaker system to connect to laptop for audio
Extension cord and power strip
AV table or cart

OTHER

Open Area / Outdoor Training – Day #3 and #4
Combination Indoor / Outdoor training facility to conduct open area rescues / tactical movement. Site should be able to accommodate four simultaneous scenarios at once. Training facility should have identified safe area for Simunition® storage and loading
If training environment has potential for criminal element, provide site security for students and equipment during duration of practical exercises.
Hand Washing stations with antimicrobial soap and towels
Water Cooler or adequate bottled water for students to intake 1qt per hour during practical evolutions

Medical Simulation Equipment – Day #1 and #4
Two chest decompression mannequins
Two intubation airway mannequin’s with silicone spray
Two Wound Simulation Devices
Training Medical Equipment for mannequins, (ET tubes etc.)
Sharps Container
Simulation Equipment – Day #3 and Day #4

Medical Threat Assessment for all sites
Rescue or Armored vehicle
Emergency vehicle with operational siren and emergency warning lights
K-9 (Day #3 only) to demonstrate / discuss handling and treatment if injured
Ballistic shields
Tactical blanket
Non-firing weapons (red or blue guns)
Multi frequency hand held radios with training net and charger
One roll 2” brightly colored “survey” tape
Disposable blankets
Advanced Life Support Equipment to include an AED for on-site medical emergencies
Site clean-up equipment; brooms, trash bags, trash cans, spray cleaning solution
“Law Enforcement Training in Progress” signs if site is in / or / near public area (if required)
Fluorescent vests for instructors and observers

Scenario Equipment Day #4

Simunition® / Airsoft or Paintball Weapon Systems (One lane only)
Safety equipment (eye / face protection, helmets, neck, groin protectors, etc.)
Eight to infinity role players
Two Rescue Randy Mannequins
Disposable Uniforms for “role players”
Assorted “expired” bandages, medication and IV catheters / fluid with tubing
Moulage kit and technician
Smoke generator
Portable strobe lights
CD Player for Sound Effect
TACTICAL EMERGENCY MEDICAL SUPPORT (TEMS)

STUDENT EQUIPMENT LIST

INDIVIDUAL

- Assigned tactical Equipment
- Utility uniform
- Boots
- Tactical gloves
- Knee pads
- Eye / hearing protection
- Flashlight or headlamp
- Weather gear (rain gear / cold weather clothing)
- Energy bars
- Hydration system
- Sunscreen
- Insect repellant
- *Ballistic armor level III
- *Tactical helmet
- *Training handgun
- *Safety equipment for Simunition®

*We understand that not all class participants will have ready access to all recommended equipment. While it is best to train in your own equipment as you would deploy, some equipment may be available at the training site. Please contact course coordinator in advance to ensure equipment availability.

You will be issued an individual first aid kit to be used for the duration of the training.