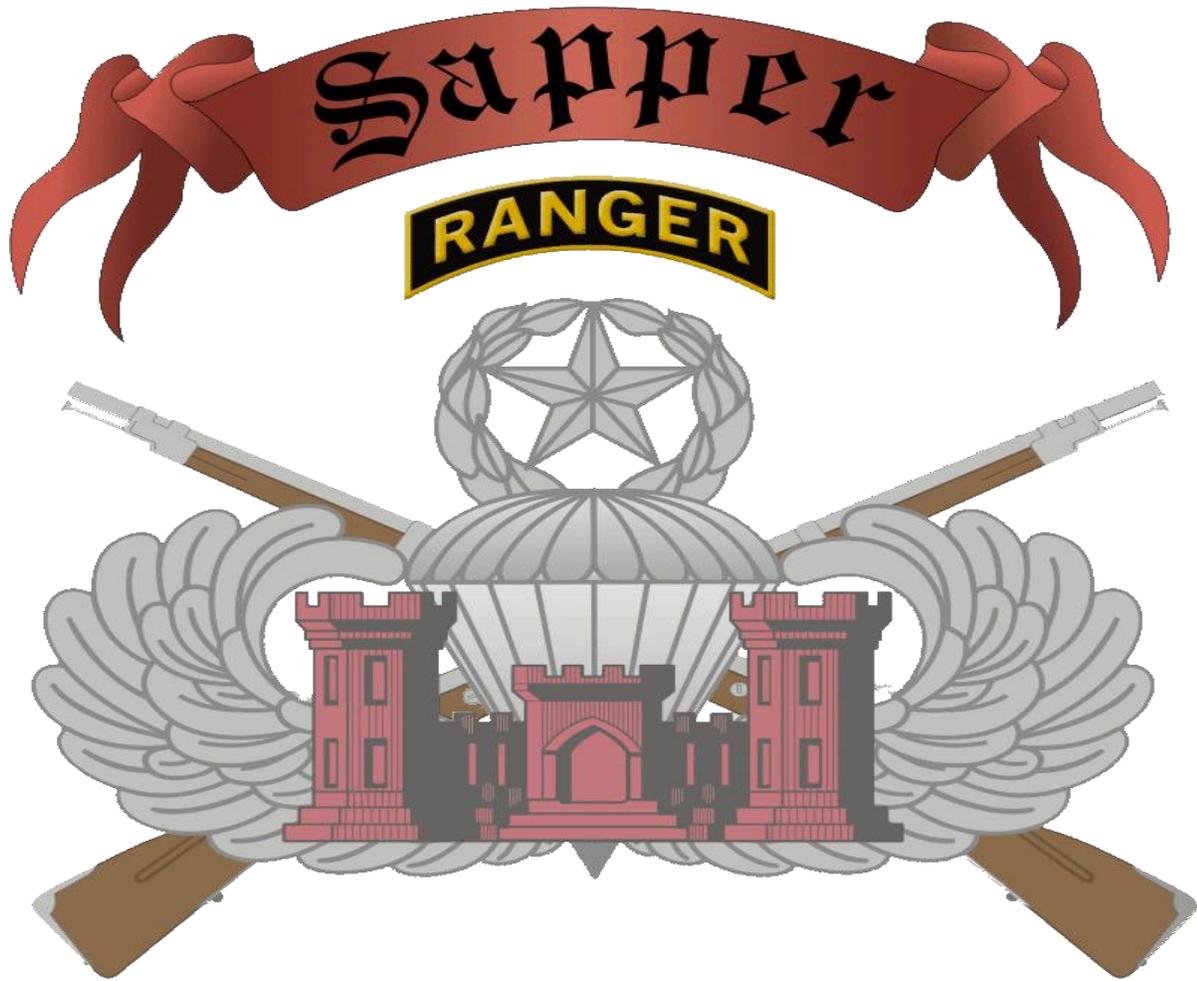


# SAPPER LEADER COURSE PAMPHLET



SAPPER LEADER COURSE  
HHD 35th ENGINEER BATTALION  
1<sup>ST</sup> ENGINEER BRIGADE  
FORT LEONARD WOOD, MISSOURI 65473

# THE SAPPER LEADER PAMPHLET

|   |           |
|---|-----------|
| <b>I. PREFACE.....</b>                                | <b>2</b>  |
| <b>II. FOREWORD .....</b>                             | <b>3</b>  |
| <b>III. HISTORY OF THE SAPPER ENGINEER.....</b>       | <b>4</b>  |
| <b>IV. OVERVIEW AND ATTENDANCE.....</b>               | <b>5</b>  |
| TRAINING LOCATION.....                                | 5         |
| PURPOSE.....  | 5         |
| SCOPE.....  | 5         |
| ELIGIBILITY.....                                      | 5         |
| PREREQUISITES.....                                    | 5         |
| COMBAT WATER SURVIVAL TEST (CWST).....                | 5         |
| ATTENDANCE.....                                       | 6         |
| REENTRY INTO COURSE.....                              | 6         |
| <b>V. STUDENT ORIENTATION.....</b>                    | <b>7</b>  |
| GENERAL.....  | 7         |
| TRAVEL .....  | 8         |
| MAILING ADDRESS .....                                 | 8         |
| EMERGENCY PHONE CONTACT.....                          | 8         |
| LEAVE.....  | 8         |
| REPORTING.....  | 8         |
| MEDICAL REQUIREMENTS.....                             | 9         |
| BILLETING .....                                       | 9         |
| MEALS.....  | 9         |
| PAY .....   | 9         |
| LAUNDRY SERVICES .....                                | 9         |
| TRAINING DAY .....                                    | 9         |
| UNIFORM AND APPEARANCE.....                           | 9         |
| PHYSICAL FITNESS .....                                | 10        |
| ARMY PHYSICAL FITNESS TEST .....                      | 10        |
| PHYSICAL FITNESS UNIFORM .....                        | 10        |
| DAILY PHYSICAL TRAINING.....                          | 10        |
| LEADERSHIP.....                                       | 11        |
| <b>VI. EQUIPMENT AND HEADGEAR CONFIGURATIONS.....</b> | <b>12</b> |
| <b>VII. INDIVIDUAL EQUIPMENT LIST .....</b>           | <b>15</b> |
| <b>VII. MANDATORY TRAINING .....</b>                  | <b>18</b> |
| <b>IX. INDIVIDUAL SOLDIER TASK PROFICIENCY.....</b>   | <b>19</b> |
| 21B COMBAT ENGINEER TASKS.....                        | 19        |
| STP 7-11B24-SM: 11B INFANTRY TASKS.....               | 20        |
| <b>X. EXAMPLE MEMORANDUMS.....</b>                    | <b>21</b> |
| PROFICIENCY MEMORANDUM.....                           | 21        |
| SPECIALIST NON-PROMOTABLE MEMORANDUM.....             | 22        |
| SPECIALIST PROMOTABLE MEMORANDUM.....                 | 23        |

## I. PREFACE

The Sapper Leader Course is the premier leadership course for the Engineer Regiment. It trains confident and competent leaders to thoroughly plan and aggressively execute combat engineer missions. The training is very challenging but its rewards are great. Both individual soldiers and units benefit from the training. Sappers graduate with improved engineer and leadership skills; companies return to home station more cohesive and better trained cadre.

The Sapper Leader Course provides a unique opportunity to collectively train an engineer company's cadre from the ranks of corporal to captain. No other course in the Army does this. To take full advantage of the team-building aspect of this training, this training is available to all combat arms, combat support, and combat service support.

There are two areas in which soldiers must be proficient before attending the course; physical conditioning and land navigation. Most of our attrition is due to inadequate physical conditioning and an inability to negotiate our land navigation course. A tough physical conditioning train-up, as well as refresher training in map reading and land navigation skills, will improve performance in these areas.

## II. FOREWORD

During the past 25 years, the Army's dedication to doctrine, training, organizational design, and leader development has produced the best trained, most ready Army in our nation's history. The Army's success in combat operations such as Operation URGENT FURY, Operation JUST CAUSE Operation DESERT STORM, and OPERATION IRAQI FREEDOM; as well as its exceptional performance in operations other than war have validated these efforts, added to the distinguished heritage of the Army, and established a strong foundation to support future accomplishments.

Today, our nation's force-projection Army must stand ready to rapidly deploy and conduct decisive operations on many battlefields and in many environments. Missions can range from large scale combat operations to disaster relief and nation assistance. Each situation requires a unique force package that is tailored to accomplish specific objectives yet agile and flexible enough to adapt to rapidly changing conditions. The Army conducts its operations in accordance with the doctrinal framework established in FM 3-0 Operations. This field manual describes how the Army will apply its resources to accomplish missions across the full spectrum of military operations. To be truly competent, leaders must understand not only how the Army plans and conducts operations, but also the role that they and their soldiers play in the operational environment.

At the small unit level, mission success requires competent leaders capable of taking the initiative and acting independently in support of their higher commander's intent. Combat engineer leaders must be highly motivated, physically and mentally tough, and technically and tactically proficient in order to accomplish their missions and provide effective support to their maneuver elements. The Sapper Leader Course is designed to develop tough, hard, and knowledgeable leaders who are confident in their abilities and capable of operating under the harshest of conditions. The 28 day course is extremely fast paced and challenging. It will instill a high level of self-confidence and quickly enhance the cohesion within your unit. The primary focus of the Sapper Leader Course is troop leading procedures using dismounted combat patrolling as the teaching vehicle. The Sapper Leader Course is a leadership development school for combat engineers that teach skills critical to success on the battlefield. This pamphlet is designed to acquaint you with the Sapper Leader Course and the requirements for its successful completion.

### III. HISTORY OF THE SAPPER ENGINEER

The term Sapper can be traced back as far as 1501 to the siege of Rouen during the French Wars. Sappers throughout time have proven their abilities to build and repair fortifications, execute field works, and reform the countryside with demolitions and heavy equipment to weaken the enemy and lead the infantry to victory on the battlefield.

On May 27, 1778, Congress authorized three companies of Sappers and Miners to receive instruction in erecting field works -- the first step toward technical education -- and to direct fatigue parties, repair damaged works and erect new ones. Recruitment continued for more than two years with the activation of the companies on August 2, 1780. Meanwhile, on March 11, 1779, Congress passed a resolution that formed the engineers of the Continental Army into the Corps of Engineers.

The Corps of Engineers and its companies of Sappers and Miners enjoyed their finest hour in October of 1781 at Yorktown where General Washington conducted a siege in the classical manner of Sebastian de Vauban, the great French master of siege craft. Thirteen engineer officers of the combined French and American Armies performed crucial reconnaissance and with the fifty men of the Sappers and Miners, planned and constructed field works. In addition, the Sappers and Miners assembled fortification materials, erected gun platforms, transported cannons and ammunition, and cleared the way for the decisive infantry assault on Redoubt 10. After the battle, General Washington cited Duportail, the first Chief of Engineers, for conduct which afforded "brilliant proofs of his military genius," and set the seal of his reputation.

Combat engineers in today's Army are required to demonstrate qualities similar to their Revolutionary War counterparts, and when they do, they proudly call themselves **SAPPERS**.

## IV. OVERVIEW AND ATTENDANCE

### TRAINING LOCATION

The training location is at the US Army Engineer Center, Fort Leonard Wood, Missouri 65473-6400.

### PURPOSE

To train selected combat, combat support, and combat service support unit leaders in leadership skills, combat engineer and infantry battle drills, and the specialized engineer and infantry techniques required to perform as members of a Sapper Battalion; to build unit cohesion and increase the confidence of the unit's leadership.

### SCOPE

The Sapper Leader Course is designed to train leaders from the squad level to the company level, (30 personnel per class). Training is conducted in a team building environment to build leadership skills, learn specialized engineer techniques, and perform battle drills necessary to perform the engineer missions of a Sapper Company. The course is also designed to build unit cohesion and esprit de corps by training the soldiers in troop leading procedures, demolitions (conventional and expedient), mountaineering operations, aerial operations, airborne operations, foreign weapons, land navigation, waterborne operations, and contingency threat. The course culminates in an intense field training exercise that reinforces the use of the battle drills and specialized engineer techniques learned throughout the course.

### ELIGIBILITY

The Sapper Leader Course is open to all active and reserve units. Enlisted soldiers should qualify in their MOS with priority going to 21B, 1371(USMC), 11B, 18C and 19D, specialist promotable and above, and officers in the rank of Captain and below. Army Soldiers in the grade of E4 who are not promotable must have a waiver signed by their battalion commander, verifying grade and potential for success. This memorandum must be turned in at Inprocessing. Blanket memorandums for groups of E4s are not permitted. Under no circumstances will enlisted soldiers below the rank of Specialist be allowed to attend the Sapper Leader Course. Previous heat casualties are prohibited from attending the summer classes (May – Sep). Previous cold weather injuries are prohibited from attending the winter classes (Oct - Apr).

### PREREQUISITES

All Sapper Leader Course students must meet the Army Physical Fitness Test (APFT) standards while scoring a minimum of 210 points and height and weight standards IAW AR 600-9 for their age group. All Sapper Leader Course students must be proficient in the engineer and infantry tasks listed in the back of this pamphlet.

### COMBAT WATER SURVIVAL TEST (CWST)

All units must conduct Combat Water Survival Testing prior to arrival. Units must provide a list to the Sapper Leader Course on in-processing day noting swimmers, weak swimmers, and non-swimmers. The CWST is administered IAW DA Pam 351-4. While passing the CWST is not required for attendance, it is required to identify weak and non-swimmers. The CWST will not be conducted at the Sapper Leader Course. All students must have at least attempted the CWST before attending Sapper Leader Course.

**ATTENDANCE**

Individual course allocation requests must be submitted through Army Training Requirements and Resources System (ATRRS).

**REENTRY INTO COURSE**

Release from the Sapper Leader Course for misconduct or refusal to train requires a waiver from the soldier's battalion commander for the soldier to return to the course. The soldier can return no earlier than one year after dismissal.

Medical drops may return to the course once cleared by a physician, and when their unit deems them physically ready to attend the course.

All other students who receive a certificate of attendance will be considered on a case-by-case basis for the recycle program. Recycle Soldiers are selected based on performance throughout the course, and will normally only be considered if all physical evaluations have been passed, and have failed due to either points or leadership evaluations in patrols. Recycles will be given a chance to discuss their options with their unit, and may opt to attend the next class and will not return to their unit. Recycles will restart the next class from day one and are not eligible to be considered for Honor Graduate. Soldiers selected for recycle do not have to reschedule through ATRRS. Soldiers not selected for the recycle program must return to their unit for further train-up. Soldiers not selected for recycle may return to the course via ATRRS availability.

## V. STUDENT ORIENTATION

### GENERAL

The following information is intended to provide answers to typical questions posed by prospective Sapper Leader Course students.

The Sapper Leader Course is a demanding 28-day course designed to train leaders from the squad level to the company level, (40 personnel per class). Training is conducted in a team building environment in order to build leadership skills, learn specialized engineer techniques, and perform battle drills necessary to execute engineer missions. The course is organized into two phases: Phase I - General Subjects; Phase II - Patrolling

**Phase I.** This phase lasts 13 days. It includes general subjects such as:

- Physical training
- Medical techniques
- Expedient antennas
- Demolitions training (conventional and expedient)
- Urban Breaching
- Threat weapons/mines
- Land navigation
- Knots and rigging
- Air operations (aerial resupply and landing zone, pick-zone, and drop zone operations)
- Mountaineering
- Water operations (scout swimming, boat operations, river crossings, and helocasting techniques).

**Phase II.** This phase lasts for 15 days. It includes basic patrolling techniques and battle drills that place strong emphasis on troop-leading procedures, infantry tactics and techniques, planning for operations, and small-unit operations. Training includes:

- Combatives
- Patrol organization and movement
- Intelligence
- Recon/Raid/Ambush
- Operation order
- Warning order
- MOUT operation
- Breaching Tenants
- Troop leading procedures
- 9 Day Field Training Exercise

**FTX:** This is a continuous 9 day field training exercise. Student leadership is rotated during different phases of the mission which requires students to perform in simulated combat situations to accomplish a variety of missions in a realistic scenario. Students are graded on their ability to apply the principles of patrolling to accomplish the mission. Missions conducted during the STX/FTX are a 50/50 mix of engineer vs. infantry missions. Engineer missions include: bridge reconnaissance, bridge demolition, road craters, covert complex obstacle breach, urban reconnaissance, and field expedient demolitions.

**TRAVEL**

Recommend incoming students either arrange round trip bus transportation to and from Fort Leonard Wood; or fly into St. Louis and arrange bus transportation to and from Fort Leonard Wood. There are only two commercial flights daily to and from Forney Airfield, Fort Leonard Wood. These flights only carry 19 passengers and have limited baggage capability.

Units should also make provisions for commercial transportation, either bus or air, for students who must return to the home duty station prior to the graduation date on DA Form 1610. These students may include medical drops and emergency leaves.

**MAILING ADDRESS**

Sapper Leader Course students can use the following mailing address:

Rank, Name,  
1243 Iowa Ave  
ATTN: Sapper Leader Course, Class # \_\_\_\_\_  
HHD 35<sup>th</sup> Engineer Battalion  
Fort Leonard Wood, Missouri 65473-6400

**EMERGENCY PHONE CONTACT**

The telephone number for emergency contact during duty hours is the Sapper OPS at (573)596-0823. After duty hours the 1<sup>st</sup> Engineer Brigade SDO telephone number is (573)-596-0222. The installation Defense Switching Network (DSN) prefix is 581.

**LEAVE**

Only emergency leave will be granted, as determined by the unit commander, and will result in administrative release from the course.

**REPORTING**

All incoming students must report to Building 6022, Sapper Leader Course compound at TA-147, Fort Leonard Wood, Missouri NLT 0500 hours on the Friday before the course start date. Building 6022 is located 3 miles from the main gate of the post. Take the first right (Indiana Avenue) after entering post and remain on Indiana Avenue for approximately three miles until you reach TA-147, Cedar Falls. For further information, the Visitor Information building is located at the main entrance to post. It is recommended that students arrive on the Thursday before the course start date.

Incoming Sapper Leader Course students will have in their possession:

- All equipment on the packing list
- DA Form 1610/TAD orders, include statement of early return in event of drop
- Ranger/Airborne qualified Physical Dated within 18 months of course start
- Current Hazardous Duty Orders & Jump Log (for those coming from airborne units)
- Previous cold / hot weather injury memorandum
- Waiver for each non-promotable E4 signed by Battalion Commander (ARMY ONLY)
- Memorandum of task proficiency and train-up completion signed by Battalion Commander
- CWST roster indicating all strong, weak and non-swimmers

**(Example Memorandums on last three pages of this pamphlet)**

## **MEDICAL REQUIREMENTS**

A physical examination must accompany the student's medical records when reporting. The exam should be dated within 18 months of report date, and state the applicant is medically qualified to attend. The exam record must include blood work (CBC/DIFF and UA Kidney function). Your medical facility may refer to this as "Ranger or Airborne Physical". Dental records must include a full mouth x-ray verifying that a panorex exists at home station and is available by sending unit, if requested.

All students are required to hand-carry their medical and dental records to the course. Records are turned in to the Senior Medic during in processing upon arrival. Records are maintained by course medics and are utilized by the individual for sick call procedures. Medical questions can be answered by calling the course medic.

No supplements are authorized at the Sapper Leader Course. It is recommended that you stop taking supplements two weeks prior to arrival so that it gets out of your system. Failure to do so could cause you to become a medical drop and harm your body.

## **BILLETING**

All personnel are billeted in the 800 area in open bay metal buildings located 1/2 mile from the Sapper Leader Course classroom. During the last 14 days of the course, students live and operate in a field environment.

## **MEALS**

All students eat in a dining facility when not participating in field operations. Before arrival the unit must remove all officers and enlisted students from separate rations and place them on meal cards for the duration of the course.

## **PAY**

The parent unit Finance & Accounting Office administers all financial matters to include monthly pay and travel pay. Only emergencies will be handled at Fort Leonard Wood. Students need only bring sufficient funds to defray expenses for incidentals and personal needs (~\$100.00). Cash or traveler's checks are recommended, time will not be given to use ATM's or banking facilities. Students are required to pay for any government equipment lost or damaged during the course. Statements of charges and cash collection vouchers are accepted.

## **LAUNDRY SERVICES**

Washers, dryers, and hand washing facilities are available at the Sapper Leader Course for student use.

## **TRAINING DAY**

The normal training day is from 0500 to 2200 hours, seven days a week. The last 11 days are spent in the field conducting 24 hour operations.

## **UNIFORM AND APPEARANCE**

The uniform and appearance of all personnel must comply with AR 670-1. There will not be an opportunity to get a haircut during the course; soldiers must arrive at in processing with a fresh haircut. All uniforms must be in serviceable condition. "Lead By Example"

## PHYSICAL FITNESS

All personnel must arrive in excellent physical condition. Physical Training is conducted each training day. This will be followed by 14 hours of rigorous training that is as demanding as the PT session. The physically weak student will not complete the course due to the likelihood of an injury. Feet, knee, and ankle injuries are prevalent due to extensive walking. Training before arriving at the Sapper Leader Course should be conducted with this in mind.

**Physical Condition:** All commanders must ensure that applicants are in top physical condition when reporting to the Sapper Leader Course. Applicants should concentrate on improving upper body strength and foot marching in properly fitted boots, with a full pack (40 lbs) for distances of at least 12 miles over varied terrain (i.e. steep grades) in three hours or less.

## ARMY PHYSICAL FITNESS TEST

The cadre administers the Army Physical Fitness Test (APFT) and conducts height and weight screening to all students. Students must pass the APFT for their age group (IAW FM 21-20) by achieving 60 in each event **and an overall score of 210**. Soldiers must meet the Army height and weight standards IAW AR 600-9. Students who do not pass the APFT with a minimum score of 210 or meet height and weight standards are returned to their home duty station.

## PHYSICAL FITNESS UNIFORM

**Summer: (May - September):** The PT uniform is the Army gray shirt, black shorts, white socks, and athletic shoes IAW AR 670-1 with roadguard vest and flashlight. No unit distinctive T-shirts are authorized. Marines will wear their uniform equivalent; shorts, t-shirt, athletic shoes, white socks, and glow belt.

**Winter: (October - April):** The PT uniform is the Army gray jacket, black sweat pants, black watch cap, black gloves, green wool glove liners in addition to the Summer PT uniform IAW AR 670-1 with road guard vest and flashlight. Marines will wear their uniform equivalent; summer uniform with sweat shirt, sweat pants, fleece cap, and green gloves.

## DAILY PHYSICAL TRAINING

During daily physical training students must "qualify" by completing the callisthenic exercises and distance run with the cadre leader for that day. Students who exhibit poor physical conditioning or do not complete the run will not receive the allocated points for that PT session.

A typical physical training session during the first 2 weeks may include:

- Several exercises working both upper and lower body to muscle failure.
- Distance run of 3 - 7 miles, at a **7.0 minute per mile pace**. Runs are conducted in formation.
- Students are required to do 6 chin-ups, complete a 12-foot horizontal ladder, and climb a 30-foot rope before each meal and after each PT session.
- Foot March: All personnel will complete a 12-mile foot march, with weapon, LBE and 35 pound Pack within 3 hours.

**LEADERSHIP**

The Sapper Leader Course develops the leadership skills of the students by requiring them to perform effectively as small unit leaders in a realistic tactical environment. During the first phase, the leadership positions are rotated daily. During Phase II, the leadership positions are rotated daily.

Throughout the course, the "buddy system" is used to instill a spirit of teamwork and cooperation. Each student is responsible for knowing his buddy's location and watching out for his welfare.

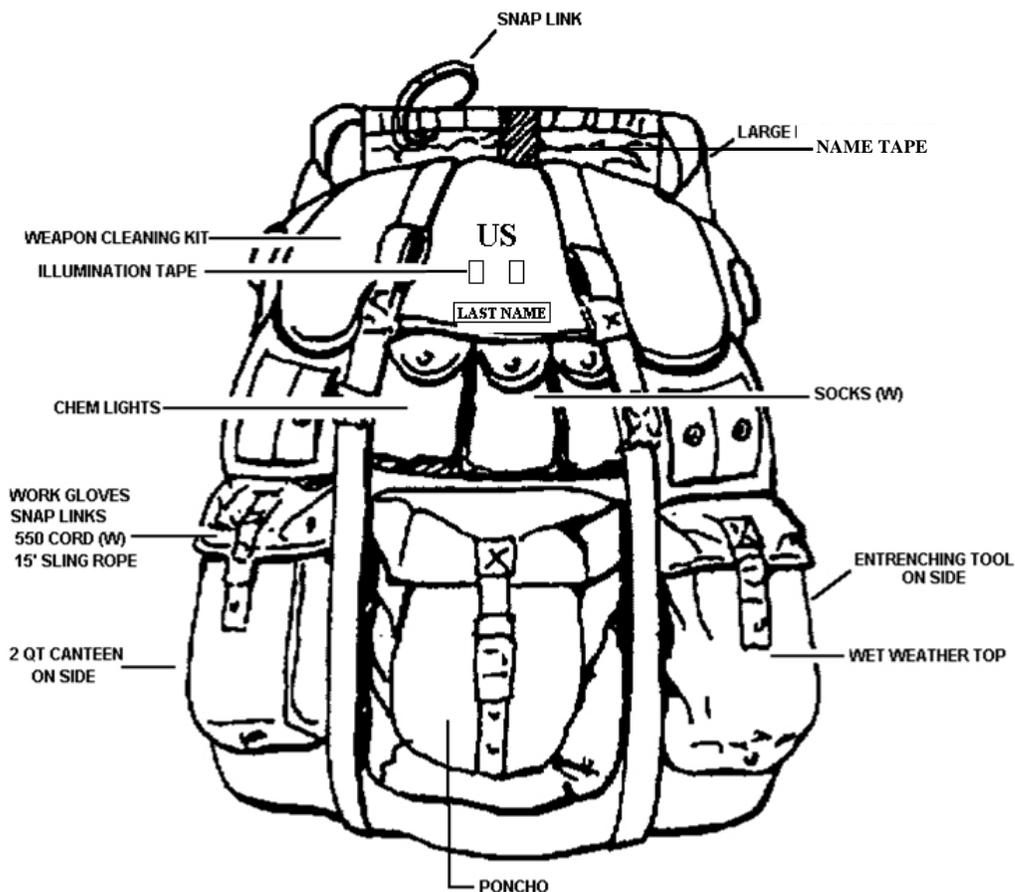
Each student will be evaluated a minimum of two times on leadership during patrolling and must receive a "GO" in 50% of these evaluations.

The Sapper Leader Course develops hardened combat engineers that are better prepared to fight on today's modern battlefield with increased leadership skills.

## VI. EQUIPMENT AND HEADGEAR CONFIGURATIONS

### ALICE PACK

- E-Tool cover & 2 Qt canteen cover are secured to the ALICE pack using gutted 550-cord tied with a square knot and two overhands.
- The E-Tool and 2 Qt canteen are further secured with a Sapper assist cord. Each item is secured with an end of the line bowline with overhand safety and the other end of the assist cord is secured to the ALICE pack itself with an end of the line bowline and overhand safety.



#### ON TOP OF WATERPROOF BAG

Kevlar/ACU  
Mission Essential Equipment  
MRE's  
100 MPH Tape (W)  
Electrical Tape (W)

#### IN WATERPROOF BAG

Patrol Cap  
ACU/Cami Pants  
ACU/Cami Shirt  
T-Shirt  
Black Gloves  
Poncho Liner  
Combat Boots  
Socks  
Poly Pro Top (Winter)  
Cold Weather Gloves (Winter)  
Fleece Cap (Winter)

#### MAP POCKET

Socks (W)  
Camouflage Stick  
Insect Repellent  
Razor  
Soap  
Towel  
Protractor  
Map Markers  
Calculator (W)

## MOLLE PACK

- E-Tool cover & 2 Qt canteen cover are secured to the MOLLE pack using gutted 550-cord tied with a square knot and two overhands.
- The E-Tool and the 2 Qt canteen are further secured with a Sapper assist cord. Each item is secured with an end of the line bowline with overhand safety and the other end of the assist cord is secured to the MOLLE frame with an end of the line bowline and overhand safety.
- The Marine ILBE will be configured in the same manner except, the gear in the side sustainment pouches will be placed in the top flap pouch.



**ON TOP OF WATERPROOF BAG**  
 Kevlar/ ACH  
 Mission Essential Equipment  
 MRE's

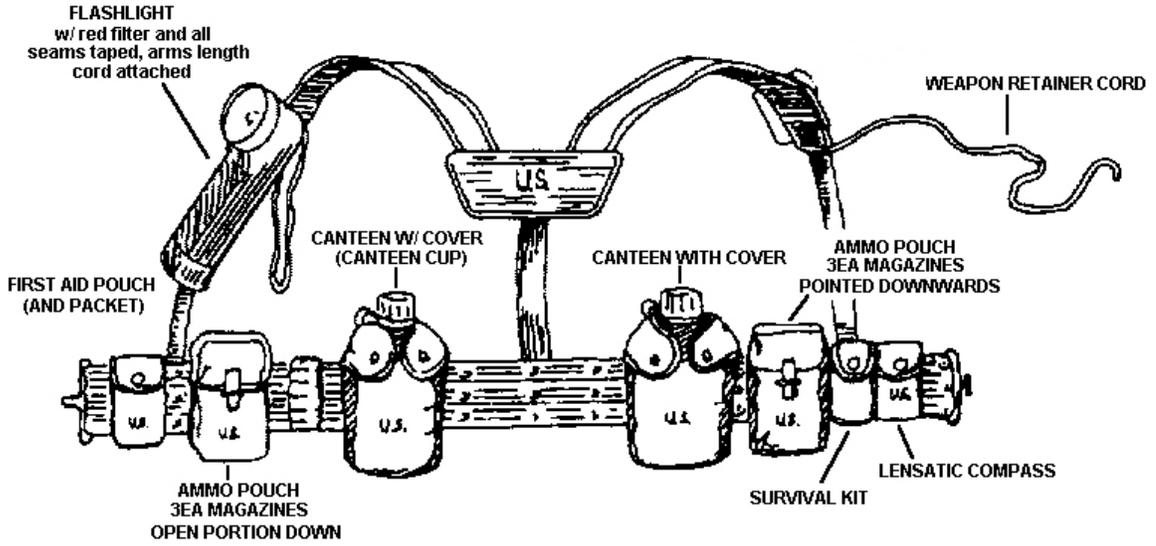
**IN WATERPROOF BAG**  
 Patrol Cap  
 ACU/Cami Pants  
 ACU/Cami Shirt  
 T-Shirt  
 Black Gloves  
 Poncho Liner  
 Combat Boots  
 Wool Socks  
 Poly Pro Top (Winter)  
 Cold Weather Gloves (Winter)  
 Fleece Cap (Winter)

**MAP POCKET**  
 Socks (W)  
 Camouflage Stick  
 Insect Repellent  
 Razor  
 Soap  
 Towel  
 Protractor  
 Map Markers  
 Calculator (W)

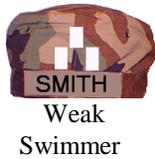
**LEFT SIDE SUSTAINMENT POUCH**  
 Rappel Gloves (W)  
 Carabineer (W)  
 15' Sling Rope (W)  
 6' 550 Cord (W)  
 100 MPH Tape (W)  
 Electrical Tape (W)

**RIGHT SIDE SUSTAINMENT POUCH**  
 Socks (W)  
 Chemlights  
 Wet Weather Top  
 Poncho/Tarp

- All items worn on the LBE/FLC/LBV are secured with gutted 550-cord tied with a square knot & two overhand knots (i.e. first aid pouch, ammo pouches, canteen covers, etc.). The FLC/LBV needs to be configured to carry the same gear as the LBE listed below.



- Items such as knives, canteen cup, canteens, and flashlight have a Sapper assist cord fastened to the item with an end of the line bowline safetied with an overhand knot. The other end of the gutted 550-cord is tied to the web belt with an end of the line bowline safetied with an overhand knot.



- Soft cap/Cover with name tape and illumious tape 1" x 1/2" with at least 12 independent stitches on each piece of illumious tape.

## VII. INDIVIDUAL EQUIPMENT LIST

| <u>INDIVIDUAL ITEMS</u>  | <u>UNIT OF ISSUE</u> | <u>QTY</u> |
|--|----------------------|------------|
| ACU/CAMIs – each set with all authorized patches and Insignia (Rank only worn at Graduation) | EA                   | 4          |
| Boots - combat boots well broken in and IAW Seasonal requirements and AR 670-1               | PR                   | 2          |
| Socks - cushion sole (Black or green)  | PR                   | 12         |
| Athletic Socks- (White)  | PR                   | 5          |
| T-shirts, tan/green  | EA                   | 6          |
| Drawers, brown (optional)  | EA                   | 6          |
| Identification Card  | EA                   | 1          |
| ID Tags with long and short chain  | EA                   | 2          |
| ACU Cap/Cover – each with reflective tape and name tape IAW equipment configuration          | EA                   | 2          |
| Belt/MCMAP, Tan web with buckle  | EA                   | 2          |
| Wet weather pants  | EA                   | 1          |
| Wet weather top  | EA                   | 1          |
| Poncho/Tarp (Suggest bring 1x extra)   | EA                   | 1          |
| Poncho liner   | EA                   | 1          |
| Gloves, black leather, (1 pair must be Army issue)   | PR                   | 2          |
| Glove inserts, green wool, (1 pair must be Army issue)                                       | PR                   | 2          |
| Gloves, leather work, white - appropriate for Rappelling                                     | PR                   | 1          |
| Fleece cap - with illumination tape (winter)   | EA                   | 2          |
| Duffel Bag/Sea Bag with lock   | EA                   | 2          |
| Ear plug case with ear plugs   | EA                   | 2          |
| Field jacket w/liner, or GORTEX (winter)   | EA                   | 1          |
| Insulated boots (winter) IAW AR 670-1  | PR                   | 1          |
| Long underwear, polypropylene (winter)   | EA                   | 2          |
| PT uniform (2 summer and 1 winter)   | EA                   | 3          |
| Weapons Cleaning Kit w/ CLP  | EA                   | 1          |
| Brown towel  | EA                   | 2          |
| Hand Sanitizer   | EA                   | 3          |

| <u>INDIVIDUAL ITEMS</u>   | <u>UNIT OF ISSUE</u> | <u>QTY</u> |
|---|----------------------|------------|
| Personal Hygiene Kit (Items for 30 days)  | Kit                  | 1          |
| Shower Shoes  | PR                   | 1          |
| MOLLE/ALICE/ILBE, Large with frame  | EA                   | 1          |
| Laundry bag   | EA                   | 2          |
| IFAC or First Aid Pouch with Dressing   | EA                   | 1          |
| Compass, magnetic   | EA                   | 2          |
| Entrenching tool with cover   | EA                   | 1          |
| ACH/Kevlar; serviceable with chin strap, cover,<br>& cat-eye band                           | EA                   | 1          |
| Magazines, 30 round   | EA                   | 7          |
| Bivey Cover   | EA                   | 1          |
| Sleeping Bag, green   | EA                   | 1          |
| Sleeping Bag, black   | EA                   | 1          |
| Cold Weather Gloves (winter)  | EA                   | 1          |
| Wet Weather bag   | EA                   | 2          |
| Flashlight w/ spare batteries and bulb (red lens)   | EA                   | 2          |
| LBE/FLC/LBV - IAW FLC configuration   | EA                   | 1          |
| 2 quart canteen with cover and strap  | EA                   | 1          |
| Nylon boot laces, extra   | EA                   | 3          |
| Military glasses, if needed - retainer band<br>mandatory, <u>no contacts</u> are authorized | EA                   | 2          |
| Protective Lip Balm (Optional)  | EA                   | 2          |
| Strobe light (optional)   | EA                   | 1          |
| Knee Pads   | EA                   | 1          |
| Sun Block   | EA                   | 1          |
| Note taking material: AS NEEDED   |                      |            |
| Wristwatch - inexpensive but durable<br>(NO calculator, GPS or Altimeter function)          | EA                   | 2          |
| Garbage Bag - 30 Gallon or larger   | EA                   | 10         |
| Plastic protractor, GTA 5-2-12  | EA                   | 2          |
| Sealable bags (1gallon)   | EA                   | 20         |

| <u>INDIVIDUAL ITEMS</u>                          | <u>UNIT OF ISSUE</u> | <u>QTY</u> |
|--|----------------------|------------|
| Sealable bags – (1-gallon)                       | EA                   | 10         |
| Terrain Model KIT                                |                      |            |
| Insect Repellent (Not Aerosol)                   | EA                   | 3          |
| Laundry Detergent                                |                      |            |
| Map case (optional)                              | EA                   | 1          |
| Knife  | EA                   | 1          |
| Pace cord (optional)                             | EA                   | 1          |
| Survival Kit (optional)                          | EA                   | 1          |
| Fire Starting Kit                                | EA                   | 1          |
| Butt pack (optional)                             | EA                   | 1          |
| Chem Lights, green or yellow                     | EA                   | 10         |
| Chem light, Red                                  | EA                   | 2          |
| Snap links                                       | EA                   | 2          |
| Head Lamp  | EA                   | 2          |
| Camel Back                                       | EA                   | 1          |
| Boot Cleaning Kit                                | EA                   | 1          |
| NVG Mount for Helmet                             | EA                   | 1          |
| Calculator (Non Scientific)                      | EA                   | 1          |
| Tactical Sling (M4 Capable)                      | EA                   | 1          |
| Ballistic glasses or goggles (clear lenses only) | EA                   | 3          |
| 550 cord   | FT                   | 250'       |
| Electrical tape, black friction                  | roll                 | 2          |
| 100 MPH tapes, green                             | roll                 | 3          |
| IBA/Flak without plates                          | EA                   | 1          |

**NOTES:**

No direct exchange (DX) facilities are available for the use of sapper students. It is suggested that the soldier bring serviceable equipment and gear sufficient enough to last the duration of the course. Most commonly damaged items include ALICE packs and frames, shoulder straps, compasses, ponchos, headlamps, gloves, and 2 quart canteens.

Jungle boots are not authorized for patrolling phase during winter classes.

All personnel currently on Airborne status must bring a copy of their jump log and hazardous and a complete set of serviceable air items (harness single point release, HPT Lowering line, QRS, & M1950

weapons case).

## VIII. MANDATORY TRAINING

Successful completion of the following training is a prerequisite for graduation:

|  |               |
|--|---------------|
| Meet Height and Weight Standards:  | GO/NO GO *    |
| Army Physical Fitness Test:  | GO/NO GO **   |
| Day/Night Land Navigation Course:  | GO/NO GO **   |
| Demolitions Written Exam:  | GO/NO GO **   |
| Air Operations written examination   | GO/NO GO **   |
| 12 Mile Foot March:  | GO/NO GO **   |
| Leadership Grades:<br>(Receive go on 50 percent of grades)   | GO/NO GO ***  |
| Overall Points:<br>(Receive 70% of points available)   | GO/NO GO      |
| Participate in all training:<br>(Students can only miss 24 hours of training in 28 days of training) | GO/NO GO **** |

### NOTES:

\*Not meeting the height and weight standards, failing the APFT, or receiving a medical profile will result in immediate release from the Sapper Leader Course and return to the unit's home station.

\*\*One re-test authorized.

\*\*\*Leadership evaluations will be done IAW the Sapper Leader Course Patrolling Evaluation Book and recorded on the Leader Evaluation Form.

\*\*\*\*Individuals who refuse to participate in any training event will be counseled, released from all training and remain at Sapper Leader Course.

## IX. INDIVIDUAL SOLDIER TASK PROFICIENCY

Students should be proficient in the following list of 21B Skill Level I Tasks as laid out in STP 5-12B1-SM, 21B skill level II and III Tasks as laid out in STP5-12B24-SM-TG, and 11B tasks as laid out in STP 7-11B24-SM prior to attending the Sapper Leader Course. **These tasks are not taught but are performed as collective tasks and individual graded evaluations during the course.**

### 21B COMBAT ENGINEER TASKS

| <u>SKILL LEVEL</u> | <u>TASK NUMBER</u> | <u>TITLE</u>  |
|--------------------|--------------------|---|
| 1                  | 052-192-1021       | Locate Mines by Visual Means                                    |
| 1                  | 052-192-1117       | Install an M21 Antitank (AT) Mine                               |
| 1                  | 052-192-1118       | Remove an M21 Antitank (AT)                                     |
| 1                  | 052-192-1127       | Prepare an AN/PSS-12 Mine Detector for Operation                |
| 1                  | 052-192-1128       | Locate Mines with the AN/PSS-12 Mine Detector                   |
| 1                  | 052-192-1230       | Identify Mines and Firing Devices, Friendly and Enemy           |
| 1                  | 052-193-1101       | Install an M142 Multipurpose Firing Device                      |
| 1                  | 052-193-1102       | Remove an M142 Multipurpose Firing Device                       |
| 1                  | 052-193-1310       | Construct Demolition Firing Systems                             |
| 1                  | 052-193-1311       | Prime Military Explosives                                       |
| 1                  | 052-193-1312       | Construct Demolition Initiating Sets                            |
| 1                  | 052-193-1313       | Identify Characteristics of Military Demolitions and Explosives |
| 1                  | 052-200-1075       | Tie Knots   |
| 1                  | 052-225-1210       | Communicate Using Visual Signals                                |
| 1                  | 113-587-0058       | Perform Operator's Troubleshooting on SINCGARS                  |
| 1                  | 113-587-2070       | Operate SINCGARS Single-Channel                                 |

| <u>SKILL LEVEL</u> | <u>TASK NUMBER</u> | <u>TITLE</u>                                      |
|--------------------|--------------------|---|
| 1                  | 113-587-2071       | Operate SINGARS Frequency Hop                     |
| 1                  | 071-326-0501       | Move as a Member of a Fire Team                   |
| 1                  | 071-326-0541       | Perform Movement Techniques During MOUT           |
| 2                  | 052-193-2014       | Determine Safe Distance when Firing Explosives    |
| 2                  | 052-193-2015       | Place Timber Cutting Charges                      |
| 2                  | 052-193-2016       | Place Steel Cutting Charges                       |
| 2                  | 052-193-2017       | Place Breaching Charges                           |
| 2                  | 052-193-2018       | Place Cratering Charges                           |
| 2                  | 052-193-2030       | Clear Misfires                                    |
| 3                  | 052-193-3022       | Calculate Timber Cutting Charges                  |
| 3                  | 052-193-3023       | Calculate Steel Cutting Charges                   |
| 3                  | 052-193-3024       | Calculate Breaching Charges                       |
| 3                  | 052-193-3025       | Calculate Explosive Requirements For Road Craters |
| 3                  | 052-193-3040       | Employ Bridge Demolitions                         |
| 3                  | 052-193-3054       | Prepare a Demolition Reconnaissance Report        |

### **11B INFANTRY TASKS**

| <u>TASK NUMBER</u> | <u>TITLE</u>  |
|--------------------|---|
| 071-329-1004       | Determine the Elevation of a Point on the Ground Using a Map      |
| 071-329-1009       | Convert Azimuths (Magnetic or Grid)                               |
| 071-329-1011       | Orient a Map Using a Compass                                      |
| 071-329-1014       | Locate an Unknown Point on a Map or on the Ground by Intersection |
| 071-329-1015       | Locate an Unknown Point on a Map or on the Ground by Resection    |

**NOTE: In addition to proficiency in these soldier tasks, all soldiers must be proficient in Warrior 40 Tasks as laid out in STP 21-1-SMCT (October 2006).**



DEPARTMENT OF THE ARMY  
YOUR LETTERHEAD

Office Symbol

9 February 2010

MEMORANDUM FOR: Chief of Training, Sapper Leader Course

SUBJECT: Example Certification Letter for Attendance at the Sapper Leader Course

1. I certify that (RANK) (NAME), (SSN), meets all prerequisites to attend the Sapper Leader Course to include:
  - a. Completion of the Army Physical Fitness Test while scoring a minimum of 210 points with at least 60 points in each event for his age group.
  - b. Meets Height/Weight Standards IAW with AR 600-9.
  - c. Completion of the Army Combat Water Survival Test. SM has been identified as a (Strong, Weak , or Non) Swimmer.
  - d. Proficient in all of the tasks listed in Section X of the Sapper Leader Course Pamphlet.
  - e. Completion of the 12 mile road march within three hours carrying a minimum of 40 pounds of equipment (ALICE Pack and LBE).
  - f. Completion of a Ranger or Airborne physical examination within the last 18 months. SM is hand carrying his/ her medical records and a copy of the physical examination.
  - g. SM is or isn't a previous heat or cold weather casualty. **NOTE: (Previous heat casualties are prohibited from attending the summer classes (May – Sep). Previous cold weather casualties are prohibited from attending the winter classes (Oct - Apr))**
2. Point of contact for this memorandum is (NAME) at (PHONE NUMBER)

(NAME)  
LTC, EN  
Commanding



**DEPARTMENT OF THE ARMY**  
YOUR LETTERHEAD

Office Symbol

9 February 2010

MEMORANDUM FOR: Chief of Training, Sapper Leader Course

SUBJECT: Example Wavier for SPC non-promotable

3. I request that (RANK) (NAME), (SSN), be allowed to attend the Sapper Leader Course Class XX-XX.
4. SM is currently serving in a leadership position.
5. SM has shown great leadership potential, and will excel throughout this course.
6. Point of contact for this memorandum is (NAME) at (PHONE NUMBER)

(NAME)  
LTC, EN  
Commanding



**DEPARTMENT OF THE ARMY**  
YOUR LETTERHEAD

Office Symbol

9 February 2010

MEMORANDUM FOR: Chief of Training, Sapper Leader Course

SUBJECT: Example SPC promotable

7. I certify that (RANK) (NAME), (SSN), is a promotable SPC

8. Point of contact for this memorandum is (NAME) at (PHONE NUMBER)

(NAME)  
LTC, EN  
Commanding