TERMINAL LEARNING OBJECTIVE

- **ACTION:** CORRECTLY COMPILe AND CONSTRUCT AN OPERATIONAL OVERLAY.
- **CONDITION:** IN A CLASSROOM ENVIRONMENT GIVEN 1:50 000 MAP, A TACTICAL SITUATIONAL BRIEF AND ACCESS TO ADRP 1-02 Terms and Military Symbols.
- **STANDARD:** CORRECTLY COMPILe AND CONSTRUCT AN OPERATIONAL OVERLAY IAW ADRP 1-02 Terms and Military Symbols.

WHAT ARE MILITARY SYMBOLS?

- **GRAPHIC REPRESENTATION OF:**
  - UNITS
  - EQUIPMENT
  - INSTALLATIONS
  - CONTROL MEASURES
  - OTHER ELEMENTS
- **COMMON VISUAL LANGUAGE**

ENABLING LEARNING OBJECTIVE 1

- **ACTION:** IDENTIFY THE PURPOSE AND COMPOSITION OF MILITARY SYMBOLS AND MARGINAL INFORMATION
- **CONDITION:** IN A CLASSROOM ENVIRONMENT, GIVEN A 1:50 000 MAP, A READING ASSIGNMENT AND ACCESS TO ADRP 1-02 Terms and Military Symbols.
- **STANDARD:** IDENTIFY THE PURPOSE AND COMPOSITION OF MILITARY SYMBOLS AND MARGINAL INFORMATION IAW ADRP 1-02 Terms and Military Symbols, AND ACHIEVE A 80% PASS ON THE OVERALL TESTING AT THE END OF THE WEEK.

MARGINAL INFORMATION

- **COLOR = BLACK**
- **CLASSIFICATION**
- **OPERATION NAME**
- **GRID REFERENCE POINTS**
- **AUTHOR**
- **DATE/TIME GROUP**
- **MAP REFERENCE AND SIZE**
- **NORTH SEEKING ARROW**
PRACTICAL EXERCISE

- GENERAL: Instructions for Practical Exercise.
- The purpose of this P.E. is to familiarize the Officer Candidate Students with the Operational Terms and Symbols most commonly used when planning company and Platoon level tactical operations.
- The use of ADRP 1-02 and any other doctrinal source is authorized.
- Use the correct colors and symbols.
- Reference map: FT Benning; 1:50,000.
- Mark Grid Reference points at 0985 and 1978
- Place all requirements on an unclassified operations overlay for “Operation Delta”

GRAPHIC CONTROL MEASURES

A Control Measure symbol is a graphic used on maps and displays to regulate forces and war fighting functions.

It’s how commanders use symbols to control movement on the ground.

ENABLING LEARNING

OBJECTIVE 2

- ACTION: IDENTIFY THE PURPOSE AND COMPOSITION OF GRAPHIC CONTROL MEASURES
- CONDITION: IN A CLASSROOM ENVIRONMENT, GIVEN A 1:50 000 MAP, A READING ASSIGNMENT AND ACCESS TO ADRP 1-02 Terms and Military Symbols.
- STANDARD: IDENTIFY THE PURPOSE AND COMPOSITION OF GRAPHIC CONTROL MEASURES IAW ADRP 1-02 Terms and Military Symbols, AND ACHIEVE A 80% PASS ON THE OVERALL TESTING AT THE END OF THE WEEK.

GRAPHIC CONTROL MEASURES RULES

- COLORS
  - FRIENDLY – BLACK or Blue
  - HOSTILE – RED
  - NEUTRAL – GREEN
  - UNKNOWN – YELLOW
- ORIENTATION
- LABELING
- STATUS
BOUNDARY LINE

**Figure 8-3. Horizontal and vertical boundary template**

**BOUNDARY LINE**

**FRIENDLY PLANNED OR ON ORDER**

**FRIENDLY PRESENT**

**AREAS**

**AREA OF OPERATION**

**ASSEMBLY AREA**

**OBJECTIVE**

**AO EAGLE**

**AA EAGLE**

**DZ=DROP ZONE**

**EA= ENGAGEMENT AREA**

**OBJ= OBJECTIVE**

**STRONG POINT**

**ATTACK POSITION**

**ASLT**

**I**

**II**

**AO BULL**

**OBJ COW**

**ASSAULT**

**KNOWN ENEMY LOCATION**

**ENY**

**BOUNDARIES**

**AO BULL**

**OBJ COW**

**ASSAULT**

**KNOWN ENEMY LOCATION**

**ENY**
PRACTICAL EXERCISE

• GENERAL: Instructions for Practical Exercise.
• The purpose of this P.E. is to familiarize the Officer Candidate Students with the Operational Terms and Symbols most commonly used when planning company and Platoon level tactical operations.
• The use of ADRP 1-02 and any other doctrinal source is authorized. Use the correct colors and symbols.
• Reference map: FT Benning; 1:50,000.
• REQUIREMENT: You are a Platoon Leader in B Co., 1-77 IN, which is a pure Light Battalion. Prepare an operations overlay on acetate depicting the following:

1. Place an assembly area at grid GL 13468246. Name the assembly area AA Mouse.
2. Place an assembly area at grid GL 16158275. Name the assembly area AA Dog.
3. Place an assembly area at grid GL 13448340. Name the assembly area AA Cat.
4. Draw the BN boundary from the intersection at grid GL 12858215 to grid GL 16708135, following the southern side of Red Diamond Road. 1-77th IN is to the north and 1-502nd IN is south of the boundary.
5. BN Scouts has occupied an observation post at grid GL 15708360.
6. An enemy observation post is located at grid GL 14258490.

UNIT SYMBOLS

A unit is military element whose structure is prescribed by a competent authority, such as a table organization and equipment; specifically, part of an organization.

Generally are Team size elements to Theater size organizations.

COLORS

Color indicates affiliation.

<table>
<thead>
<tr>
<th>AFFILIATION</th>
<th>HAND-DRAWN</th>
<th>COMPUTER GENERATED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Friend, Assumed Friend</td>
<td>Blue</td>
<td>Cyan</td>
</tr>
<tr>
<td>Hostile, Suspect</td>
<td>Red</td>
<td>Red</td>
</tr>
<tr>
<td>Neutral</td>
<td>Green</td>
<td>Green</td>
</tr>
<tr>
<td>Unknown, Pending</td>
<td>Yellow</td>
<td>Yellow</td>
</tr>
<tr>
<td>Friendly Graphic Control Measures</td>
<td>Black</td>
<td>Black</td>
</tr>
</tbody>
</table>

ANY OTHER COLOR WILL BE SHOWN IN THE LEGEND AND WHAT THEY REPRESENT!
STATUS OF UNIT SYMBOL

Table 3-2. Examples of status

<table>
<thead>
<tr>
<th>Friendly</th>
<th>Present</th>
<th>Planned</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hostile</td>
<td>Present</td>
<td>Suspect</td>
</tr>
</tbody>
</table>

UNIT AND ECHELON TEXT MODIFIERS

HIGHER FORMATION

AMPLIFIER LOCATIONS ON UNIT SYMBOL

Figure 3-1. Amplifier locations

COMPOSITION OF UNIT SYMBOLS

- COMPOSED OF:
  - A FRAME
  - COLOR (FILL)
  - ICON
  - MAY INCLUDE TEXT OR GRAPHIC AMPLIFIERS

OTHER POSSIBLE AMPLIFIERS

Reinforced / reduced
Country indicator

Direction of movement
FREE TEXT

ADRP 1-02
ECHELON AMPLIFIERS

- SQUAD
- SECTION
- PLATOON

COMPANY or BATTERY or TROOP

BATTALION or SQUADRON

REGIMENT or GROUP

MAIN ICONS FOR UNITS
(REFLECTS MAIN FUNCTION OF THE UNIT)

- ARMOR
- FIELD ARTILLERY
- ENGINEER
- COMBINED ARMS
- MP
- MILITARY POLICE
- SF
- SPECIAL FORCES

FULL FRAME ICONS

- INFANTRY
- ARMOR CAVALRY
- ANTIARMOR
- RECON
- MEDICAL
- SUPPLY

MODIFIERS FOR UNITS
SECTOR 1 MODIFIERS (CAPABILITY)

- ARMORED
- CHEMICAL
- SEARCH AND RESCUE

SECTOR 2 MODIFIERS (MOBILITY)

- LIGHT INFANTRY
- AIRBORNE INFANTRY
- AIR ASSAULT INFANTRY

THE BOUNDING OCTAGON

Table 3-4, Examples of horizontal and vertical bounding octagons

WHO & WHAT ??????

2nd PLT, A CO, 3rd CAB, 1st BDE

2 A/3/1
WHO & WHAT?
2nd Platoon, B Company, 2nd Battalion, 503rd Infantry Regiment ABN

OFFSET LOCATOR INDICATOR AMPLIFIER

WHO & WHAT ??????
(Enemy Headquarters)
1st Battalion, 47th Infantry Brigade

QUESTIONS ON UNIT SYMBOLS?

OFFSET LOCATOR INDICATOR AMPLIFIER

PRACTICAL EXERCISE

• GENERAL: Instructions for Practical Exercise.

• The purpose of this P.E. is to familiarize the Officer Candidate Students with the Operational Terms and Symbols most commonly used when planning company and Platoon level tactical operations.

• The use of ADRP 1-02 Terms and Military Symbols and any other doctrinal source is authorized. Use the correct colors and symbols.

• Reference map: FT Benning; 1:50,000.

• UNIT SYMBOLS:

  - General:
    - LOR: Location of Unit Report
    - LOR: Lines of Communication
    - LOR: Lines of Rear
    - LOR: Lines of Retreat

  - Company:
    - COB: Company Operations Bureau
    - COB: Company Operations Bureau
    - COB: Company Operations Bureau

  - Platoon:
    - PLT: Platoon Leader
    - PLT: Platoon Leader
    - PLT: Platoon Leader

  - Other:
    - CH: Checkpoint
    - CH: Checkpoint
    - CH: Checkpoint
**PRACTICAL EXERCISE**

**REQUIREMENT:** You are a Platoon Leader in B Co., 1-77 IN, which is a pure Light Battalion. You **MUST** use staffs to show the locations of your units. Prepare an operations overlay on acetate depicting the following:

1. Place BN HQ 1-77 IN(L) on the high ground at GL 12258335.
2. Place A Co. 1-77IN(L) on the hilltop at grid GL13468246.
3. Place B Co 1-77IN(L) on the hilltop at grid GL 16158275.
4. Place C Co 1-77IN(L) on the hilltop at grid GL 13448340.
5. Place the enemy infantry platoon at GL 15228430.

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**ENABLING LEARNING**

**OBJECTIVE 4**

- **ACTION:** IDENTIFY AND DRAW STANDARD EQUIPMENT SYMBOLS.
- **CONDITION:** IN A CLASSROOM ENVIRONMENT, GIVEN A 1:50000 MAP, A TACTICAL SITUATIONAL BRIEF AND ACCESS TO ADRP 1-02 Terms and Military Symbols.
- **STANDARD:** IDENTIFY AND DRAW STANDARD EQUIPMENT SYMBOLS IAW ADRP 1-02 Terms and Military Symbols AND ACHIEVE 80% ON THE OVERALL EVALUATION.
HOWITZERS

LIGHT
120MM OR <
MEDIUM
>120MM BUT
NOT >160MM
HEAVY
>160MM BUT
NOT > 210MM

Building a symbol

ANTITANK MISSILE LAUNCHER

JAVELIN
WEAPON SYSTEM
ANTI ARMOR / TANK
MISSILE
CALIBER / RANGE

MOBILITY INDICATORS

PACK ANIMAL

OVER SNOW (PRIME MOVER)

WHEELED (LIMITED MOBILITY)
WHEELED (CROSS COUNTRY)
TRACKED
TOWED
LIGHT MG ON TRACKED VEHICLE (NO FRAME USED)
LIGHT MG ON TRACKED VEHICLE (FRAME USED)

EQUIPMENT SYMBOLS

EQUIPMENT SYMBOLS VEHICLES

TANKS
GENERIC
LIGHT
MEDIUM
HEAVY

APC
UTILITY VEHICLE
UTILITY VEHICLE - CROSS COUNTRY
ARMORED WHEELED FIGHTING VEHICLE
ARMORED FIGHTING VEHICLE

OBSTACLES/ MINES

AP
AT
UNSPECIFIED

FM 1-02
QUESTIONS ON EQUIPMENT SYMBOLS ?