

**071-COM-1012**  
**Orient a Map to the Ground by Map-Terrain Association**  
**Status: Approved**

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**Security Classification: U** - Unclassified

**Distribution Restriction:** Approved for public release; distribution is unlimited.

**Destruction Notice:** None

**Foreign Disclosure: FD1** - This training product has been reviewed by the training developers in coordination with the G2, Ft Benning, GA 31905 foreign disclosure officer. This training product can be used to instruct international military students from all approved countries without restrictions.

**Conditions:** You are a member of a squad or team that is conducting movement in a field environment and you have been directed to orient a standard 1:50,000 scale military map to the ground. You do not have an operational compass. Some iterations of this task should be performed in MOPP 4.

**Standards:** Hold the map horizontally and match terrain features appearing on the map with physical features on the ground. Orient the map to within 30 degrees of magnetic north.

**Special Conditions:** None

**Safety Risk:** Low

**MOPP 4:** Sometimes

**Task Statements**

**Cue:** None

**DANGER**

None

**WARNING**

None

**CAUTION**

None

**Remarks:** None

**Notes:** A map can be oriented by terrain association when a compass is not available or when you have to make many quick references as you moves across country. Using this method requires careful examination of the map and the ground. You must also know your approximate location.

## Performance Steps

1. Hold the map in a horizontal position.
2. Match terrain features appearing on your map with terrain features physically observable on the ground.

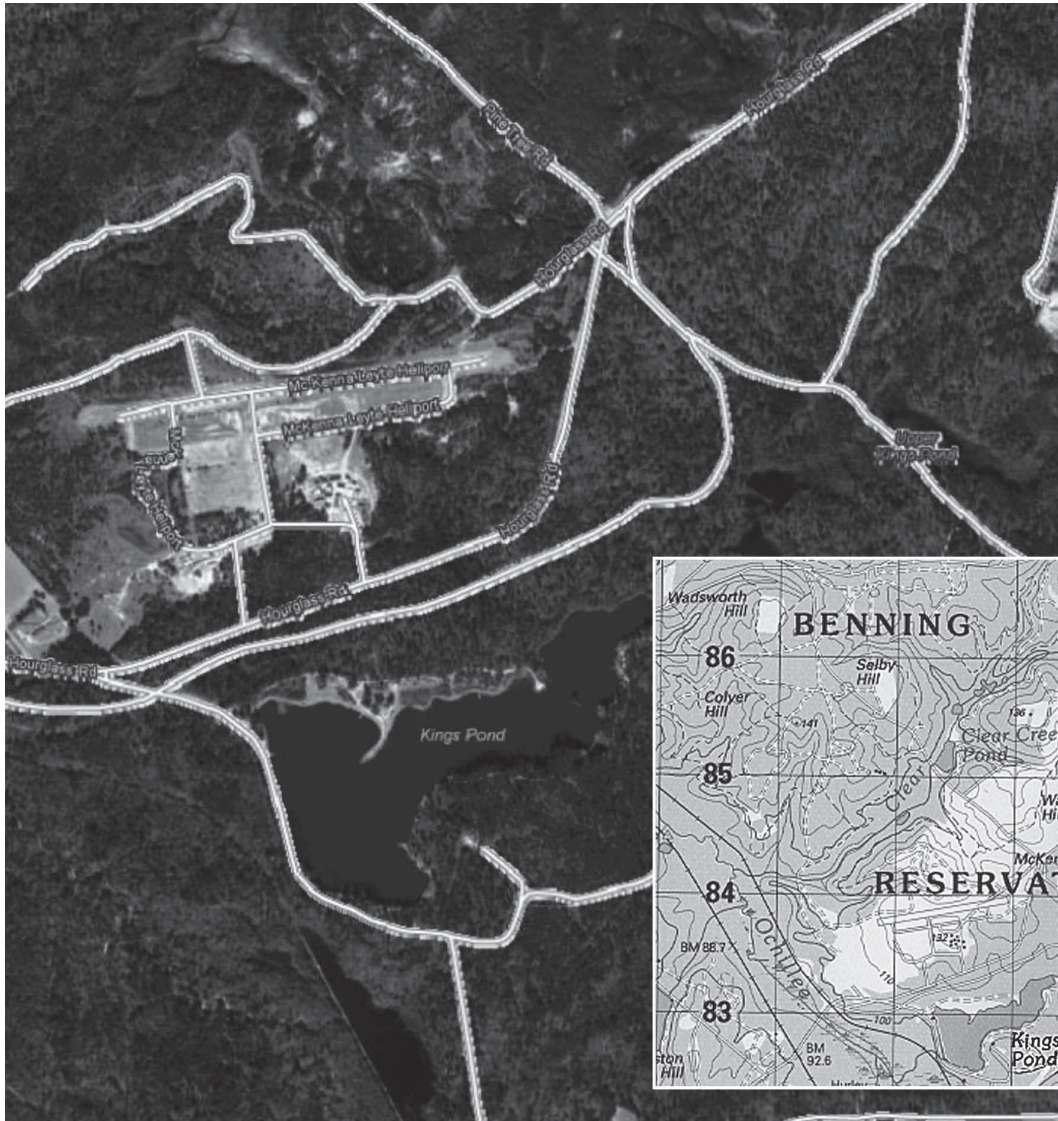


Figure 1.  
Terrain association.

3. Align the map with the terrain features on the ground.

(Asterisks indicates a leader performance step.)

**Evaluation Guidance:** Score the Soldier GO if all performance measures are passed. Score the Soldier NO-GO if any performance measure is failed. If the Soldier scores a NO-GO, show the Soldier what was done wrong and how to do it correctly.

**Evaluation Preparation:** Setup: Provide the Soldier with the equipment and materials described in the conditions statement. Brief the Soldier: Tell the Soldier what is required to successfully complete the task by reviewing the conditions and standards. Stress the importance of observing cautions, warnings, and dangers, as applicable.

PERFORMANCE MEASURES	GO	NO-GO	N/A
1. Held the map in a horizontal position.			
2. Matched terrain features appearing on map with physical features on the ground.			
3. Aligned the map with the terrain features on the ground to within 30 degrees of magnetic north.			

**Supporting Reference(s):**

Step Number	Reference ID	Reference Name	Required	Primary	Source Information
	TC 3-25.26	MAP READING AND LAND NAVIGATION ( <a href="https://armypubs.us.army.mil/doctrine/DR_pubs/dr_c/pdf/tc3_25x26.pdf">https://armypubs.us.army.mil/doctrine/DR_pubs/dr_c/pdf/tc3_25x26.pdf</a> )	Yes	No	

**TADSS :** None**Equipment Items (LIN):** None**Materiel Items (NSN) :**

Step ID	NSN	LIN	Title	Qty
	7643-01-404-4393		Topo, MC&G Products	1

**Environment:** Environmental protection is not just the law but the right thing to do. It is a continual process and starts with deliberate planning. Always be alert to ways to protect our environment during training and missions. In doing so, you will contribute to the sustainment of our training resources while protecting people and the environment from harmful effects. Refer to the current Environmental Considerations manual and the current GTA Environmental-related Risk Assessment card.

**Safety:** In a training environment, leaders must perform a risk assessment in accordance with current Risk Management Doctrine. Leaders will complete the current Deliberate Risk Assessment Worksheet in accordance with the TRADOC Safety Officer during the planning and completion of each task and sub-task by assessing mission, enemy, terrain and weather, troops and support available-time available and civil considerations, (METT-TC). Note: During MOPP training, leaders must ensure personnel are monitored for potential heat injury. Local policies and procedures must be followed during times of increased heat category in order to avoid heat related injury. Consider the MOPP work/rest cycles and water replacement guidelines IAW current CBRN doctrine.

**Prerequisite Individual Tasks :** None**Supporting Individual Tasks :**

Task Number	Title	Proponent	Status
071-COM-1001	Identify Terrain Features on a Map	071 - Infantry (Individual)	Approved
071-COM-1000	Identify Topographic Symbols on a Military Map	071 - Infantry (Individual)	Approved

**Supported Individual Tasks :** None**Supported Collective Tasks :** None**Knowledges :**

Knowledge ID	Knowledge Name
071-NAV-0029	Bar Scales
071-NAV-0028	Contour Lines
071-NAV-0027	Military Grid Reference System
071-OPN-0023	Terrain
071-NAV-0033	Distance Measuring Techniques
071-NAV-0032	Azimuths
071-NAV-0031	Topographic Symbols
805C-K-0154	How to read a map
071-NAV-0023	Cardinal Directions
071-NAV-0025	Terrain Association

**Skills :**

Skill ID	Skill Name
071-NAV-0011	Identify Terrain Features on a Map
071-NAV-0006	Determine a Location on the Ground by Terrain Association

**ICTL Data :** None