Report Date: 15 Nov 2013

Summary Report for Individual Task
052-243-1540
Perform Real Time Kinematic (RTK) Survey with Differential Global Positioning System (DGPS)
Status: Approved

DISTRIBUTION RESTRICTION: Approved for public release; distribution is unlimited.

DESTRUCTION NOTICE: None

Condition: In a field environment, given Differnetial Global Positioning System (DGPS) survey grade equipment with accessories, DGPS equipment manual, and Technical Manual (TM) 3-34.55. This task should not be trained in MOPP.

Standard: Perform a Real Time Kinematic (RTK) survey with DGPS survey-grade equipment by collecting all necessary data to create an accurate digital terrain model.

Special Condition: None

Safety Level: Low

MOPP: Never

Task Statements

Cue: None

DANGER

None

WARNING

None

CAUTION

None

Remarks: None

Notes: None

Performance Steps

1. Configure the survey controller for a Real Time Kinematic (RTK) & Infill survey.

2. Assemble the base station over an existing control point.

3. Start the base station reciever with the survey controller.

4. Assemble the roving receiver.

5. Start the roving receiver using the survey controller.

6. Collect all points/features necessary to create the digital terrain model.

   Note: Points/features may be, but are not limited to: Roads, Buildings, Sidewalks, Above and Below Ground Utilities, Waterways, Tree Lines, Large Trees (+6").

   a. Plumb the rover over the point/feature.

   b. Measure the point using the survey controller.

   c. Store the observed point.

   d. Move to the next point until all points/features have been captured.

7. End the survey on the roving receiver using the survey controller.

8. End the survey on the base station receiver using the survey controller.

9. End the survey on the survey controller.

(Asterisks indicates a leader performance step.)

Evaluation Guidance: Score the Soldier GO if all steps are passed (P). Score the Soldier NO-GO if any step is failed (F). If the Soldier fails any step, show them how to do it correctly.

Evaluation Preparation: Setup: Provide the Soldier with the items that are listed in the condition statement. Ensure that all safety precautions are followed. Prepare the testing site and equipment in advance to ensure that the task standard can be met.

Briefing: Give the Soldier a safety briefing and read the task, condition, and standard before starting the test.

PERFORMANCE MEASURES	GO	NO-GO	N/A
1. Configured the survey controller for an RTK & Infill survey.			
2. Assembled the base station over a control point.			
3. Started the base station receiver.			
4. Assembled the roving receiver.			
5. Started the roving receiver.			
6. Collected data to create an accurate digital terrain model.			
7. Ended the survey on the roving receiver.			
8. Ended the survey on the base station receiver.			
9. Ended the survey on the survey controller.			

Supporting Reference(s):

Step Number	Reference ID	Reference Name	Required	Primary
	TM 3-34.55	Construction Surveying	Yes	No

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 FM 3-34.5 Environmental Considerations and GTA 05-08-002 ENVIRONMENTAL-RELATED RISK ASSESSMENT. Prior to this task, supervisors will conduct an Environmental Risk Assessment IAW FM 3-100.4. During the assessment, supervisors should be on the lookout for environmental hazards. Environmental hazards include all activities that may pollute, create negative noise-related effect, degrade archaeological and cultural resources, or negatively affect threatened or endangered species' habitats.

Safety: In a training environment, leaders must perform a risk assessment in accordance with FM 5-19, Risk Management. Leaders will complete a DA Form 7566 COMPOSITE RISK MANAGEMENT WORKSHEET 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 FM 3-11.4, Multiservice Tactics, Techniques, and Procedures for Nuclear, Biological, and Chemical (NBC) Protection, FM 3-11.5, Multiservice Tactics, Techniques, and Procedures for Chemical, Biological, Radiological, and Nuclear Decontamination. All operations will be performed so as to protect and preserve Army personnel and property against accidental losses. Procedures will provide for public safety incidental to Army operations and activities and safe and healthful work places, procedures, and equipment.

Prerequisite Individual Tasks : None

Supporting Individual Tasks :

Task Number	Title	Proponent	Status
052-243-1539	Perform Static Survey with Differential Global Positioning System (DGPS)	052 - Engineer (Individual)	Analysis

Supported Individual Tasks :

Task Number	Title	Proponent	Status
052-243-3421	Adjust Differential Global Positioning System (DGPS) Network	052 - Engineer (Individual)	Analysis
052-243-1552	Collect Site Information for Differential Global Positioning System (DGPS) Planning	052 - Engineer (Individual)	Analysis
052-243-1561	Perform a Post Processed Kinematic (PPK) Survey	052 - Engineer (Individual)	Analysis

Supported Collective Tasks : None

ICTL Data :

ICTL Title	Personnel Type	MOS Data
12T10, Technical Engineer Specialist, Skill Level 1	Enlisted	MOS: 12T, Skill Level: SL1, Duty Pos: KIR