DEVELOPMENT OF A MODEL JOB PERFORMANCE TEST
FOR A COMBAT OCCUPATIONAL SPECIALTY
Volume II. Instructions and Procedures for Conducting
a Functionally Integrated Performance Test

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The Human Resources Research Organization (HumRRO) is a nonprofit corporation established in 1969 to conduct research in the field of training and education. It was established as a continuation of The George Washington University, Human Resources Research Office. HumRRO's general purpose is to improve human performance, particularly in organizational settings, through behavioral and social science research, development, and consultation.

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The high costs of performance tests provided the impetus for the conduct of this project. The rationale was as follows: Tests are needed that are less expensive to administer and score than are job performance tests. To be useful, the less expensive tests must be validated. Since combat performance cannot be used as a criterion in validation studies, "less-than-ultimate" criteria are needed, namely, model performance tests. However, these performance tests should require not only that the responses elicited in testing be similar to those that will be performed on the job, but also...
such a test can be constructed by the use of modules in which several
tasks are imbedded, with instructions given only for performance of the first
task in the module. Completion of one task then serves as the stimulus for
the initiation of the next task. This approach is referred to as "functionally
integrated performance testing."

Results of the project indicated that the concept of functionally
integrated performance tests is a feasible one. But revisions need to be made
before the test can be implemented in the field. The test must remain
experimental until reliability issues are resolved. The test is perhaps too
costly to use for ongoing proficiency evaluation programs, but may be used
experimentally, as a best possible criterion for examining the relevance of
other measures of job proficiency.

The functionally integrated performance test may also be viewed as a
comprehensive test of the jobs, from which samples of the job can be selected
for use in lower-cost tests. But optimal methods for sampling from the "item
pool" have not yet been developed.
PREFACE

This is the second volume of the final report on a project entitled, "Development of a Model Job Performance Test for a Combat Occupational Specialty." The project was directed toward the development and field test of an experimental job proficiency test which evaluates not only the soldier's mastery of skills and knowledges required in his MOS, but also his ability to respond without prompting to realistic stimulus conditions. This volume presents instructions and procedures for conducting a functionally integrated performance test. The first volume covers the rationale for developing a functionally integrated performance test, a description of the test development methodology, a discussion of test revisions and the reliability issues, and conclusions.

Work reported here was conducted by the Human Resources Research Organization (HumRRO) under Contract No. DAHC 19-74-C-0054 with the U.S. Army Research Institute for the Behavioral and Social Sciences. The research was performed at HumRRO's Central Division (Louisville) under the supervision of William Osborn, who is currently Director of the Louisville Office and was the Project Director. Dr. Wallace W. Prophet is Director of the HumRRO Central Division. The project staff included James H. Harris, Roy C. Campbell, John A. Boldovici, and Peter B. Wylie. Dr. Milton H. Maier, the Contracting Officer's Technical Representative, and Dr. Mazie Knerr, the Alternate Contracting Officer's Technical Representative, provided administrative guidance throughout the project. LTC Willis G. Pratt, Military Chief of ARI's Fort Knox Field Unit, was instrumental in securing support at Fort Bliss for the project.

Appreciation is expressed to the 3rd Armored Cavalry Regiment (ACR), Fort Bliss, Texas for allowing HumRRO personnel to observe the conduct of the Scout Squad Proficiency Course (SSPC). The SSPC was conducted by the 2/3 Cavalry without whose continuous cooperation the evaluation could not have been carried out. LTC Willard Burleson, CO, 2/3 Cavalry and CPT E.R. Lamison, S-3, 2/3 Cavalry, despite a full field-training schedule and the pressure of other training requirements, provided valuable time in assisting the HumRRO research effort. We are most grateful to 1LT C.G. Canavera, 1LT D.D. Newlin, 2LT C.H. Berlin III, SFC J. Ferguson, SSG E.J. Meyers, and SSG C. McCarty who gave their time and experience as raters during the field tryout, and participated with forebearance and enthusiasm during the many test runs.
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DEVELOPMENT OF A MODEL JOB PERFORMANCE TEST FOR A
COMBAT OCCUPATIONAL SPECIALTY

VOLUME II. INSTRUCTIONS AND PROCEDURES FOR CONDUCTING A
FUNCTIONALLY INTEGRATED PERFORMANCE TEST
INTRODUCTION

PROBLEM

Army personnel and training managers need valid job proficiency measures for quality control of training, evaluating MOS proficiency, evaluating the effect of changes in selection and assignment criteria, baseline data for personnel research, and evaluating unit readiness. Training and personnel managers have three general types of evaluation instruments available to measure job proficiency -- job performance ratings, job knowledge tests, and job performance tests. Job performance ratings not only lack the standardization which tests have but also are fraught with rater errors and biases. Job knowledge tests are widely used; however, there is a persistent question concerning the degree to which these tests can adequately assess a man's job performance capability. Job performance tests call for application of knowledge and demonstration of skill by eliciting behaviors that are equivalent, or nearly equivalent, to those required in actual job performance. Because of excessive demands on time and resources, performance tests are generally considered to be too expensive and usually cover only part of what men do and are expected to do on the job. The need then is for an evaluation instrument which produces results that are valid enough to be used with confidence by training and personnel managers and includes a wide enough range of job-relevant stimuli and duty positions to justify the expense.
OBJECTIVES OF THE STUDY

A possible solution to this problem lies in an approach to job performance testing which evaluates not only the soldier's mastery of skills and knowledges, but also his ability to recognize and react to conditions which initiate task performance. The test evaluates mastery of each task in a job-related module which includes several other tasks. The approach is termed here "functionally integrated performance testing," because each task is tested in a functional context which maintains the logical relationship of the tasks. This distinguishes the approach from the conventional method of testing each task as a discrete incident.

Although the concept of functionally integrated testing appears to have distinct advantages over the more traditional methods of job performance testing, several issues had to be resolved before the approach could be implemented on a wide scale. To resolve the issues, the research focused on two major objectives:

1. To examine the feasibility of developing a functionally integrated performance test for a combat occupational specialty.

2. To examine the applicability of a functionally integrated job performance test from the standpoint of:

   . Sampling tasks.
   . Scoring reliability.
   . Indicating a range of mastery.
   . Evaluating individual proficiency in a team context.
METHOD

A four-phase approach was used to develop the functionally integrated performance test. The phases are entitled:

1. MOS and duty position selection.
2. Task selection.
3. Test development.
4. Field tryout.

MOS AND DUTY POSITION SELECTION

The Armor Reconnaissance Specialist MOS (11D) was selected for this project because incumbents in the MOS perform many tasks that, though not common soldiering tasks, are performed by incumbents in the other combat MOSs. The densest duty position from each of the 11D10, 11D20, and 11D40 skill levels was selected. They are scout observer (11D10), vehicle driver (11D20), and vehicle commander (11D40).

TASK SELECTION

Task criticality was used as the criterion for selecting tasks for inclusion in the test. A panel of experts was selected to rate the criticality of tasks identified for inclusion in the test. Members of the project staff were part of the panel to insure that the job experts concentrated on the relationship of the task to the duty position and to insure that the respondents had the same understanding of what the task included.
TEST DEVELOPMENT

The reliability problems inherent in performance testing are recognized. The approach taken to develop the functionally integrated performance test reflects our concern with the issue of reliability. A job performance test which calls for application of knowledge and demonstration of skill by eliciting behaviors that are equivalent, or nearly equivalent, to those required in actual job performance must be reliable to have value for the user. The test development approach is based, in part, on the results of the field tryout and was developed in five phases:

1. Mission development.
2. Task assignment.
3. Test conditions.
5. Scoring criteria.

FIELD TRYOUT

A field test was conducted at Fort Bliss, Texas. Analysis of the data collected during the field test as well as observation of all the test runs suggested that at a minimum the following criteria be met when designing the final test which is contained in this report:

1. Use one vehicle on each test run. This provides standardized conditions for each individual being tested.
2. Eliminate low fidelity simulation. A barely discernible fence line was used during the field test to simulate a riverline with bridge and ford sites. The sites were white cards on the fence line listing the characteristics of the crossing site. These stimulus materials did not elicit realistic behaviors.

3. Test mission should be consistent with one the armor reconnaissance specialist would be given in combat.

4. Increase module distinctions. The separation of modules must be clearly discernible both to the raters and on the evaluation instruments; at the same time, they should be logically ordered. Many events during the field tryout were bunched too close and the raters were unable to determine where one situation ended and the next began.

5. Position raters for optimum observation of task performance. Too often the vehicles in which the raters traveled were incorrectly positioned for maximum observation.

6. Use fully operational equipment. Too often communications equipment was inoperable at the beginning of the test.

DISCUSSION

This volume contains instructions and procedures for conducting a functionally integrated performance test. The test is comprised of five modules which are related to each other but not dependent on each other for performance. The entire test requires 12 hours to complete and must be administered over terrain that supports the
events that are to occur. The first three modules are designed for daylight performance. The last two modules must be administered during hours of darkness. The test presented in this volume is designed for implementation in the field and contains the following sections:

1. Guidelines for test administrator.
2. Equipment lists.
3. Data reduction.
5. Instructions and Procedures for Module II: Route Reconnaissance.
6. Instructions and procedures for Module III: Specific Reconnaissance.
8. Instructions and procedures for Module V: Post Operations.

CONCLUSIONS

A functionally integrated performance test was developed and field tested. Results of the field tryout indicated that the concept of functionally integrated performance tests is a feasible one. Revisions needed to be made, however, before the test could be implemented in the field. The test must remain experimental until the reliability issues are resolved. The test is perhaps too costly to use for on-going proficiency evaluation programs, but is one which can be used experimentally as a best possible criterion for testing the relevance of other measures of job competency.
The functionally integrated performance test is viewed as a comprehensive test of the job from which a sample of parts of the job can be selected. Test expenses can be reduced by using a sample pool; however, methods of sampling from the pool must be developed.
This section provides guidelines for administering a functionally integrated performance test. Specific items covered are:

1. Standardized conditions.
2. Time requirements and control measures.
3. Predetermined data.
4. Environmental contamination.
5. Rater preparation.
6. Unit SOPs.
7. Uncontrolled test interruptions.
8. Job aids.
10. Repeated tasks.
11. Sequential tasks.

**Standardized Conditions.** The importance of standardized test conditions cannot be overemphasized. The essence of any proficiency measure which professes to be a test is that of standardized conditions. It is mandatory that all personnel tested be presented identical stimulus conditions. The test conditions described for each module of the performance test must be strictly adhered to. Events cannot be allowed to "just happen" but must occur as prescribed in the directions for establishing and administering each module.

**Time Requirements and Control Measures.** Time requirements listed in the module descriptions are approximations. The time required to conduct the test will vary with the terrain. A dry run of the course
to determine a realistic maximum time to conduct each module is necessary before the test is administered. Each crew to be tested on the course must be allowed the maximum time to complete each module. Some crews may complete a module in less than the maximum time; however, no crew may take more than the maximum time.

Control measures in the form of identifiable phase lines, boundaries and check points must be inserted as required to aid adherence to a time schedule. The control measures must be equally applied to all crews.

**Predetermined Data.** Bridge classification data, demolition charge required, coordinates of known events (roadblock, enemy tank), probable variations on OP/LP locations, multiple ford sites, and multiple by-pass routes must be predetermined and provided the raters. A detailed route classification must be prepared to check against data provided by tested elements.

**Environmental Contamination.** Care must be taken during test scheduling to minimize the effect of outside influences on test results. These factors include seasonal variations in foliage, precipitation and atmospheric conditions affecting visibility. The test must be run at generally the same time of year, same time of day and generally under favorable weather conditions. While combat missions must be performed in all extremes, only through selection of the most "normal" conditions can standardized ratings be obtained. Perhaps more important are contaminating factors resulting from the test itself. As the test is run over the same terrain, tracks and marks made by previous test crews will provide cues to subsequent tested elements. To
minimize the effect of these cues, attention must be given to selecting terrain that allows shifting of some locations such as OPs and LPs. Additionally, the exact location of the contaminated area can be shifted for different runs and previously used fords can be rendered unusable by placing obstacles. Vehicle tracks will provide the most apparent cues; however, if the test area used has been well traveled by other track vehicles these generally become too numerous to be meaningful.

Rater Preparation. The raters are the key to a successful test. Rater responses must not be left to chance and every effort must be made to minimize rater subjectivity. The key to good rating lies in rater motivation and familiarity of raters with the test as conducted "on the ground." It is necessary that raters have at least one walk thru and one wet run prior to their first scored run. The test administrator must frequently spot check the raters to insure objectivity and continuity.

The individuals who are to score the test must be knowledgeable concerning 11D MOS requirements. It is not necessary that all raters be officers but they should be at least scout squad leader incumbents. The raters must be knowledgeable of the procedures on test items and be made aware of the purpose of the test and the mechanics of evaluation. Raters must be prepared in advance and given a briefing on the subject matter they are to rate. Effort must be made to impress upon selected raters the importance of their duty, the need for objectivity and the requirement for test security. They must be provided reference
material such as FPs, TMs, job aids, copies of pertinent unit SOPs and a list of predetermined data. Three raters are to be used for each test run and each rater must separately rate the performance of all three crew members. One officer rater will also act as the platoon leader. Sufficient raters must be prepared to allow rater rotation between tested crews.

Positioning of the raters will vary with the module. Generally, during movement phases the raters will follow in a trail vehicle. During modules involving demolitions, OPs, and LPs it will be necessary for the raters to be located closer to the test participants. Raters must, however, avoid interfering with the activities of the tested individuals. During some portions of the test it may be desirable to pre-position raters (such as at the roadblock). In general, rater locations are identified under "Rater Activities" but adjustments will be necessary based on local conditions.

Unit SOPs. The evaluation of certain test items will depend on the SOP of the unit to which the individuals tested are assigned. These include items such as loading plans, seasonal combat uniforms, reporting frequency and format, use of codes and maintenance procedure. The test is designed so these local practices can be incorporated. It is important, however, that raters are familiar with the unit SOPs and that SOPs are used equally as a criterion in rating crews.

Uncontrolled Test Interruptions. It is recognized that certain events will occur that are not listed as test items. These may include minor equipment failures and reaction to events not planned for testing.
While these are not specifically evaluated, the surrounding behavior, e.g., reporting and security, is subject to evaluation within the context of the event being rated. These outside events must not be treated administratively. If a serious event such as a major breakdown or injury requiring treatment occurs, the test should be terminated until the situation is corrected. For retest, a new order should be given starting the test at the point of termination.

Other events will occur because of actions of crew members. A vehicle commander who goes off course enough to affect the outcome of events, can be brought back through the direction of the "platoon leader" by a radio transmission. Likewise, all requests for indirect fire support, aerial observation or other outside assistance should be acknowledged and denied.

**Job Aids.** Job aids of the type normally used on the job should also be used during the test. These include route and bridge classification cards, demolition cards, vehicle commander checklists and report format codes. TMs are to be used for operational checks. Army doctrine and unit SOP will dictate specific items which can or cannot be utilized; however, the general guideline is that aids cannot be used if they are specifically used only for this test.

**Individual vs Crew Performance.** An important factor of this test is that individual performance is being evaluated. This requires raters to observe closely the actions of each crew member. It is recognized, however, that the majority of activities will reflect on the vehicle commander. These will include most zero ratings given when a
task is not performed by a crew member because it is the responsibility of the vehicle commander to direct and supervise the activities of his crew. On the other hand, the vehicle commander should not have to direct every action of the driver and observer. The rater must use his experience to rate tasks performed by subordinate crew members. In some cases a dual rating may be given for the crew member performing the task and for the vehicle commander who supervises it. For example, if the OP is inadequately camouflaged both the crew member who performs the task and the vehicle commander who supervises should be rated NO-GO. Conversely, a driver who improperly negotiates an obstacle or an observer who fails to observe his sector should not reflect on the vehicle commander.

Not all activities will be performed by the same incumbent on each test crew. In general, the more complicated tasks (demolitions, bridge classification) will be performed by the vehicle commander and the "routine" tasks (dismounted reconnaissance, probe for mines) conducted by another crew member. This does not preclude tasks being performed interchangeably by all crew members. A vehicle commander must not, however, allow himself to become so involved with performing tasks that should likely be performed by others that he is no longer effective as a supervisor. Judgment and reason of the raters must prevail in making this evaluation. In all cases, the actual crew member performing the task will be evaluated for that task.
Repeated Tasks. Many of the tasks listed are repeated several times during a module and throughout the modules. The purpose is to determine specific behavior traits of generalized actions. Each time the behavior item is listed it should be rated only for that particular occurrence or in the time period immediately preceding the rating. Raters must be careful not to generalize these ratings. Their evaluations must be based only on what they observe during the time or event being rated.

Sequential Tasks. Some tasks selected for evaluation are dependent on performance of precipitative tasks. For example, to submit a spot report on enemy activity the crew must first perceive the activity. The test is designed so that the cues necessary to generate tasks are easily discernible by the crew. However, raters must be briefed not to rate as NO-GO tasks which were not performed only because the preceding task did not occur. For example, if a crew fails to dismount the machinegun when establishing an OP they would receive a NO-GO for that item but would not receive a rating for remounting the machinegun when withdrawing the OP. Raters should be briefed to mark these tasks N/A or to make an appropriate note as to what occurred. Raters must also be alert for tasks that do not occur, i.e., as part of "Recon Route," the task "Search Key Terrain," is listed as a recurring task. Naturally if there is no key terrain during that portion of the route, the task is not scored.

Whenever it is realistically possible the platoon leader/rater should act to insure the events listed take place. For example,
upon observing a tested crew that fails to by-pass the contaminated
area, the platoon leader/rater should call the vehicle commander
requesting his location. Upon receiving an answer he should
inform the vehicle commander that the area is contaminated and
must be by-passed 1500 meters to the north or south. The vehicle
commander would receive a NO-GO for "Select By-pass" but then would
be rated on his performance on the by-pass on the remainder of the
checklist items. It is not intended, however, that the platoon
leader/rater direct every action of the tested crew or that he hand-
feed incompetent crews. However, where conditions exist allowing
varying courses of action, the rater/platoon leader should use his
presence to insure standardization of each test run.

Conclusions. The test administrator of a functionally inte-
grated performance test will be presented with requirements for
control and test standardization that are not present in other crew
or unit test situations. Adherence to these guidelines during
preparation and conduct of the test will prevent uncontrolled
conditions from developing and increase the reliability of
individual scores.
DATA REDUCTION

At the completion of each test the information on the rating sheets must be reduced to allow display in workable form. The attached format is provided to assist reduction. One sheet is prepared for each rater and totals from all raters can be compiled on the same format.
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<th>Scout Observer</th>
<th>Driver</th>
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<td></td>
<td>GO</td>
<td>NO</td>
<td>PERF</td>
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<td>I</td>
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<tr>
<td>TOTAL</td>
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From the score sheet for each module, total the number of (+) ratings, (-) ratings and (0) ratings for the vehicle commander and enter under the GO, NO GO and NOT PERF columns respectively. Repeat for the scout observer and driver. Add the columns for all five modules.

Crew Number

Vehicle Commander

Scout Observer

Driver
The attached equipment lists are considered the minimum equipment, materials, supplies and personnel specifically required for conduct of the test. Local conditions may require more or different support material. Basic issue items (BII) are considered to be those items listed in the vehicle TM. Medical, administrative, clerical, mess and control support will be determined by the unit field SOP and are not listed here.
EQUIPMENT LIST
TESTED CREW

M114A1 w/BII, radios, cupola mounted automatic weapon, M60 machinegun w/blank adapter

Individual weapons w/blank adapter

Blank ammunition
  300 rd per M60 MG
  100 rd per M16

Demolition set

TNT or C4

Detonating cord

Detonaters

Trip flares w/wire

Radio, AN/PRC 77

Remote set, AN/GRA 39

Wire, WD1

Binoculars

Night vision sights, hand held or weapon mounted

Flashlight w/filter

Brass spike probes

Measuring tape

Map 1:50,000

Unit SOPs

Unit report formats

CEOI extract

Route classification GTA
Bridge classification GTA

Protective mask

Uniform, seasonal combat as per SOP
EQUIPMENT LIST
RATERS

Trail vehicle w/BII, radios and CVC, headset or external speaker
Radio, AN/PRC 77
Binoculars
Night vision devices
Protective mask
Evaluation sheets, Modules I thru V
Script for operation order, Modules I thru V
Overlays or strip map issued vehicle commander
TM 9-2320-224-10
Map 1:50,000
CEOI extract
Unit SOPs
Unit loading plan
Predetermined data for route, enemy locations, bridge classification, OP locations, LP locations, demolition charges
EQUIPMENT LIST
OTHER SUPPORT

Aggressor personnel w/weapons, blank ammunition and AN/PRC 77 Radio (Module II, Module IV)
Aggressor tank w/crew (Module II)
Aggressor truck w/driver (Module IV)
Support maintenance personnel (Module I, Module V)
POL support (Module I, Module V)
Friendly personnel (Module V)
Dummy mines (Module II)
CS pots or grenades (Module II)
Handheld flares (Module IV)
Boobytraps (Module II)
Noise Devices (empty shell casings, artillery simulator or whistle thunderer) (Module IV)
MODULE I: PREOPERATIONS

PURPOSE

The purposes of Module I are to assess:
1. The vehicle commander's ability to issue an operation order.
2. Crew members' ability to prepare for a combat mission, including performing before-operation checks and services on vehicles, weapons, and equipment.

CREW MEMBER ACTIVITIES

Upon receiving the oral order from the platoon leader, the vehicle commander will formulate his plan for accomplishing the mission, and will issue an operation order to the crew covering:
1. The actions necessary for preparing for the mission.
2. The planned conduct of the mission.

The crew will then prepare the vehicle, themselves, weapons, radios, and other equipment for the mission. The vehicle commander will assist in the preoperations, will spot-check performance of preoperations in which he does not assist, and will make a final determination that the crew is mission-ready.

CONDITIONS

This module is to be administered during daylight hours, in a motor pool or assembly area. All equipment and blank ammunition to be used on the problem will be issued, and the vehicle will be in tactical configuration as required by SOP. The preoperations area will be located at least 1 KM from the LD, with maintenance support available. Uniform will be combat, as required by SOP. The platoon leader will initiate the operation by issuing the frag order and a strip map or overlay showing the route, phaselines, boundaries, checkpoints, and critical areas.

RATER ACTIVITIES

An officer-rater will act as platoon leader and issue the operation order to the vehicle commander. This rater will function as platoon leader throughout the test. Each rater must observe independently each of the operations on the attached checklist. The raters will not question crew members, indicate the ratings that are being given, or prompt
crew members in any way. After the preoperations have been performed and the crew is mounted, the raters will mount a trail vehicle and follow the tested vehicle to the LD. The platoon leader/rater will respond over the radio to communications checks from the tested vehicle.

RATER EQUIPMENT AND MATERIAL

Evaluation sheets, Module I, attached
Script for reconnaissance order, attached
TM 9-2320-224-10
Map, 1:50,000
Overlay or strip map issued vehicle commander
CEOI extract
Unit loading plan

PERFORMANCE ASSESSMENT

Module I must be completed within one hour of issue of the operation order by the platoon leader.

Using the attached checklist, each rater will independently assign a GO, NO-GO, or NOT PERFORMED to each item. No partial credit will be given for performance. Each item is either "all-go" or it is rated NO-GO.

The following guidelines will be used to judge adequacy of performance of the items on the checklist:

1. The TM must be followed in performing preoperation maintenance checks and services.
3. Operational checks must be performed on all weapons. The weapons must be clean and lubricated, with bores clean and dry.
4. A ground guide must be used when moving the vehicle within the assembly area. The ground guide must use hand signals to move the vehicle to the desired location. The driver must follow the ground guide's signals.
5. The vehicle commander must make a spot check of the vehicle, personnel, and equipment before reporting as ready.

ATTACHMENTS

Schematic diagram, Module I
Order for Route Reconnaissance
Evaluation sheet, Module I, Preoperations
Initial Frag Order
and
Route Reconnaissance

(By Platoon Leader)

"Friendly forces. The 1st Brigade is conducting a movement to contact. Our tank battalion is conducting a movement to contact along two axes. Due to heavy mine damage in last week's operation you will be operating alone. Your scout vehicle is to conduct a route reconnaissance along Axis Blue. Enemy forces are conducting delaying actions with small pockets of resistance and are expected to continue to do so. The enemy has employed chemical munitions and has contaminated areas with persistent chemicals.

Your mission is to conduct a route reconnaissance from this assembly area to PL ZULU as shown on your sketch map. Part of our battalion will be moving over this route at _______ hours. You must reach PL ZULU by ______ hours. Report passage of all phase lines. SLAR has reported heavy activity last night at this location (Roadblock) _________ on your sketch map so check that area carefully. The shaded area on your sketch map indicates an area that is reported to have chemical contamination.

After you reach PL ZULU move to the high ground in this area _______ and establish an OP until the tank column passes. The OP must be functioning by _______ hours.

Be prepared to continue the operation on order. Make sure your vehicle and weapons are in top shape and all your preoperations are completed before you move out.
Fire support should be requested thru me. All reports are to be submitted directly to me. Current CEOI remains in effect. I will be located one terrain feature to your rear. I want you to cross the LD at ________ hours, Time is now ________.

Any questions?
INSTRUCTIONS FOR COMPLETING RATING SHEET

If the vehicle commander (VC), vehicle driver (VD) or scout observer (SO) performs the listed task correctly enter the GO symbol (+) in the box under the duty position. If the task is performed incorrectly or incompletely enter the NO GO symbol (−) under the duty position. In all situations rate the individual who actually performed the task.

If the task is not performed by any crew member, enter the "Should have performed but did not" symbol (0) under the duty position for the crew member who should have performed the task at that time.

If you did not observe the task, do not enter a rating. Determine ratings on what you observe; not on what you think occurred. Do not ask other raters what they observed.

EXAMPLE

<table>
<thead>
<tr>
<th>V</th>
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</table>

Mine inspected

Results of inspection reported

Security maintained

SCORE KEY

+ = GO
− = NO GO
0 = Should have performed but did not

In the above example the mine was inspected correctly by the scout observer. However, the vehicle commander did not submit a report to the platoon leader and he was given a rating for "Should have performed but did not." Both the vehicle commander and the vehicle driver were maintaining security. The vehicle commander was performing correctly but the vehicle driver, while performing the task, was not doing it correctly or completely.
MODULE I
PREOPERATIONS

Crew Briefing

Vehicle commander gives:

. Situation
. Mission
. Time of departure and location of LD
. Essential information being sought

Vehicle commander directs equipment to be taken:

. Ammunition
. Weapons
. Rations
. Special Equipment

Call signs & frequencies are explained

Vehicle commander insures map is posted
Pre Op

Perform before operations checks on:

. Suspension
  V V V

. Tracks
  V V V

. Engine oil levels
  V V V

. Transmission oil levels
  V V V

. Geared steering unit oil levels
  V V V

. Fuel level
  V V V

. Controls
  V V V

. Instruments
  V V V

. Brakes
  V V V

Log book entries made (following format in TM 38-750)
  V V V

Equipment and ammunition loaded
LAW loading plan
  V V V

Radios:

. Clean
  V V V
Mounted

Antennas secured

Operational communication checks made of:

- Intercom
- Radio

Weapons serviced:

- Individual
- M60
- Commander's weapon

Battlesights applied (per unit SOP):

- Individual
- M60
- Commander's weapon

Operate M114 with ground guide

Machinegun test fired

SCORE KEY

+ = GO
- = NO GO
0 = Should have performed but did not

V C D O
Vehicle commander inspects:

- Individuals
- Weapons
- Vehicle

Crew reported as ready
MODULE II: ROUTE RECONNAISSANCE

PURPOSE

The purposes of Module II are to assess:
1. Individuals' ability to perform a route reconnaissance mission.
2. Individuals' ability to prepare and occupy an observation post.
3. Individuals' ability to function under CBR conditions.
4. Individual conduct of security and tactical movement.
5. Vehicle commander's reaction to mission interruption under time pressure.

CREW MEMBER ACTIVITIES

The crew performs route reconnaissance upon crossing the LD. During the reconnaissance they encounter:
1. A roadblock requiring removal.
2. An enemy tank.
3. A destroyed bridge requiring locating a ford.
4. A gas attack and contaminated area requiring locating a by-pass.

The crew will move to an OP site to establish and occupy OPs after completing the route reconnaissance.

CONDITIONS

This module is to be administered during daylight hours following a route that is capable of supporting tank traffic. The route will not exceed 5 KM and have not more than a total of four lateral routes or key terrain features. The roadblock cannot be by-passed and must be within the crew's capability of removing. Sniper fire at the roadblock will be initiated as the tested crew members are inspecting the roadblock and will continue whenever crew members expose themselves during removal. The roadblock will be boobytrapped with trip wires and pressure release fuses. The enemy tank will be moving at a distance of 300-500 meters and will not initiate action against the test crew. The destroyed condition of the bridge must be ascertainable from a distance. CS grenades or pots will be detonated downwind of the tested vehicle at the edge of the contaminated area. The platoon leader/rater will pick up the route overlay when he issues the order for the specific reconnaissance. (Module III)
RATER ACTIVITIES

The raters will follow the tested crew in a trail vehicle during all movement phases. The platoon leader/rater will respond to all tested vehicle radio traffic and will initiate or respond to radio traffic to insure the test situations, boundaries and time limitations are being followed. Raters will dismount and position themselves as necessary to facilitate observation of tasks at the roadblock, ford site and observation post. Each rater must observe independently each of the operations on the attached checklist. Raters will not question crew members, indicate the ratings that are being given or prompt crew members in any way other than realistic interaction required between the platoon leader/rater and the vehicle commander. The platoon leader/rater will pick up the route overlay and issue the order for Module III during occupation of the OP.

RATER EQUIPMENT AND MATERIAL

- Evaluation sheets, Module II, attached
- Script for Specific Reconnaissance, attached
- Map, 1:50,000
- Overlay or strip map issued vehicle commander
- CEOI extract
- Trail vehicle w/radlos
- Binoculars
- Protective mask
- Predetermined route overlay
- Predetermined location listing: enemy, OPs, by-passes
- CVC, headset or external speakers

PERFORMANCE ASSESSMENT

Module II must be completed within 4 hours, 45 minutes of crossing the LD. The route reconnaissance must be completed within 4 hours of crossing the LD.

Using the attached checklist, each rater will independently assign a GO, NO-GO, or NOT PERFORMED to each item. No partial credit will be given for performance. Each item is either "all-go" or it is rated NO-GO.

The following guidelines will be used to judge adequacy of performance of the items on the checklist:
1. Route Reconnaissance

- The entire route must be traversed.
- All information is recorded and reported regardless of apparent value.
- Minimum information must include:
  - minimum width.
  - type of road (all weather, limited all weather, fair weather).
  - load capacity.
  - restrictions or limiting factors.
- Lateral routes must be checked to one terrain feature from the main route.
- Key terrain must:
  - be identified.
  - searched.
  - condition reported and recorded.

2. Movement

- When operating the M114A1, the driver must:
  - operate the vehicle in a manner to enhance the accomplishment of the mission with minimum direction from the vehicle commander.
  - select his course of movement by viewing and analyzing the terrain prior to movement.
  - position the vehicle, both moving and at the halt, to take advantage of terrain and vegetation.
  - evaluate soil condition through color and vegetation to avoid impassable ground.
  - ascend steep slopes in a straight line and without shifting.
  - cross obstacles by accelerating, decelerating and accelerating.
  - maintain steady speed during movement.
  - select the route that offers the least obstacles consistent with the mission.
  - descend steep slopes by braking with the engine.
  - avoid abrupt turns, especially on side slopes.
  - perform during operation and at halt maintenance.

- Rate of Movement
  - phase lines must be crossed within 3 minutes of established time.
  - open areas visually reconnoitered must be traversed rapidly.
  - areas not affording visibility must be traversed slowly or checked on foot.
  - security precautions must not hamper movement necessary to accomplish mission.
3. Security

- Dismount observer:
  - to improve observation.
  - to prevent enemy detection.
  - to provide security.
  - selectively—as required, but not to impede movement.

- Local security is maintained at the halt by:
  - dismounting the observer.
  - driver manning the automatic weapon when vehicle commander is dismounted.
  - maintaining cover and concealment of mounted and dismounted elements.

- Minimize radio traffic:
  - reports not required by SOP or immediately by the situation are not submitted by radio.
  - reports required are submitted by:
    - SOP format or,
    - Who,
    - What,
    - Where,
    - When,
    - Activity.

- Maintain radio security:
  - friendly information not sent in the clear.
  - correct radio-telephone procedure used.
  - codes and clear text not interchanged.

4. The ford sites must be checked for mines. The site must be visually inspected for evidence of recent disturbances.

5. The best ford site is selected by considering:
   - proximity to the route.
   - condition of approach.
   - condition of exit.
   - cover and concealment on approach side.
   - width of crossing.
   - depth of crossing.
   - effects of key terrain.

6. Select OP site:
   - covering likely avenues of approach.
   - providing width and depth of view.
   - avoiding land marks.
   - located on topographic crest of the high ground.
   - affording natural concealment.
   - facilitating installation of communications and placement of weapons.
7. Unmasking - One crew member breaks mask seal to check air before entire crew unmask.

8. Route reconnaissance overlay must show:
   - road widths.
   - trafficability.
   - load classification.
   - obstructions and limiting factors.
   - special conditions.
   - curves.
   - constrictions.
   - fords.
   - by-passes.
   - lateral routes.
   - key terrain.
   - use of proper symbols.

ATTACHMENTS
Schematic diagram, Module II
Evaluation Sheets: Module II, Route Reconnaissance
Order for Specific Reconnaissance
INSTRUCTIONS FOR COMPLETING RATING SHEET

If the vehicle commander (VC), vehicle driver (VD) or scout observer (SO) performs the listed task correctly enter the GO symbol (+) in the box under the duty position. If the task is performed incorrectly or incompletely enter the NO GO symbol (-) under the duty position. In all situations rate the individual who actually performed the task.

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EXAMPLE

Mine inspected

Results of inspection reported

Security maintained

SCORE KEY

+ = GO
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In the above example the mine was inspected correctly by the scout observer. However, the vehicle commander did not submit a report to the platoon leader and he was given a rating for "Should have performed but did not." Both the vehicle commander and the vehicle driver were maintaining security. The vehicle commander was performing correctly but the vehicle driver, while performing the task, was not doing it correctly or completely.
MODULE II
ROUTE RECONNAISSANCE

SCORE KEY
+ = GO
- = NO GO
0 = Should have performed but did not

LD
Identify LD on the ground
Cross LD on the move
Report crossing LD within 1 minute
Cross LD + 1 minute of H

Recon Route
Traverse all of route
Search key terrain
Search lateral routes

Movement
Operate M114
Halt vehicle in covered/concealed positions
Move by most direct covered/concealed route
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<tr>
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</table>

Rate of movement conforms to situation and control measures

Position selected in advance

Security

Observer dismounted as required

All sectors observed ($360^\circ$)

Binoculars used for observation

Local security maintained at the halt

Radio traffic kept to a minimum

Radio security maintained

Roadblock

Roadblock observed from covered/concealed position

Roadblock reported (within 100 meters)

Security overwatch established

Roadblock approached dismounted

Dismounted individuals move by covered/concealed routes
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**Individuals react immediately to sniper fire by taking cover**

**Suppressive fire directed at known/suspected sniper positions**

**Roadblock removed using the vehicle**

**Driver/vehicle commander operate with hatch covers closed during removal of roadblock**

**Security/overwatch maintained during roadblock removal**

**Security elements do not divert attention to watch removal**

**Roadblock checked for booby traps prior to removal**

**Individuals remain in covered positions during removal**

**Removal reported**

**Reconnaissance immediately resumed (within 2 minutes of removal)**

**Recon Route**

**Traverse all of route**
SCORE KEY
+ = GO
- = NO GO
0 = Should have performed but did not

Search key terrain

Search lateral routes

Movement

Operate M114

Halt vehicle in covered/concealed positions

Rate of movement conforms to situation and control measures

Positions selected in advance

Security

Observer dismounted as required

All sectors observed (360°)

Binoculars used for observation

Local security maintained at the halt

Radio traffic kept to a minimum

Radio security maintained
Enemy Tank

Tank identified as enemy

Vehicle moved immediately to obtain concealment and cover

Fire discipline maintained (tank not engaged)

Tank location reported (within 100 meters)

Observation of tank maintained until out of sight

Reconnaissance mission resumed without delay (within 2 minutes after tank passes)

Recon Route

Traverse all of route

Search key terrain

Search lateral routes

Movement

Operate M114

Vehicle halts in covered/concealed positions
Move by most direct covered/concealed routes

Rate of movement conforms to situation and control measures

Positions selected in advance

**Security**

Observer dismounted as required

All sectors observed (360°)

Binoculars used for observation

Local security maintained at the halt

Radio traffic kept to a minimum

Radio security maintained

**Ford Site**

_destroyed bridge observed from covered/concealed position

Bridge condition reported

Bridge by-passed as soon as condition of bridge is ascertained

**SCORE KEY**

+ = GO

- = NO GO

0 = Should have performed but did not
Tentative ford site selected based on map and visual reconnaissance

Tentative ford sites inspected dismounted

Dismounted individuals move by covered/concealed routes

Overwatch maintained

Ford site inspected for:
- Type
- Bottom
- Condition of approach
- Condition of exit

Ford approaches visually checked for mines

Best ford site selected based on reconnaissance

Ford reported (within 100m)

Route reconnaissance mission immediately resumed (within 2 minutes after fording)

SCORE KEY
+ = GO
- = NO GO
0 = Should have performed but did not
Recon Route

Traverse all of route

Search key terrain

Search lateral routes

Movement

Operate M114

Vehicle halts in covered/concealed positions

Move by most direct covered/concealed routes

Rate of movement conforms to situation and control measures

Positions selected in advance

Security

Observer dismounted as required

All sectors observed (360°)

Binoculars used for observation

Local security maintained at the halt

SCORE KEY

+ = GO
- = NO GO
0 = Should have performed but did not
Radio traffic kept to a minimum

Radio security maintained

**Gas Attack**

Alert given immediately on detection

Individuals mask (within 9 seconds)

Exposed flesh protected

Vehicle withdraws from contaminated area

Attack reported (within 100m of vehicle location)

Individuals operate while masked

Air checked before unmasking

By-pass route selected from map

By-pass used avoids contaminated area

By-pass rejoins original route

Key terrain on by-pass searched

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</tbody>
</table>
Cross country route navigated accurately to point within 300m of original route and contaminated area

Movement

Operate M114

Vehicle halts in covered/concealed positions

Rate of movement conforms to situation and control measures

Positions selected in advance

Security

Observer dismounted as required

All sectors observed (360°)

Binoculars used for observation

Local security maintained at the halt

Radio traffic kept to a minimum

Radio security maintained

SCORE KEY

+ = GO
- = NO GO
0 = Should have performed but did not
Establish OPs

Completion of route reconnaissance reported

Vehicle moves directly to correct OP site as shown on the vehicle commanders overlay

Security of site established (360°)

Security search made of OP area

Individual OP site selected

Vehicle positioned:
  . In cupola defilade
  . Facilitating withdrawal
  . Antennas do not disclose position
  . Providing overwatch

M60 machinegun dismounted

Communications established between positions

SCORE KEY
+ = GO
- = NO GO
0 = Should have performed but did not

V C V S C D O
Both positions/weapons mutually supporting

Positions camouflaged:
  . OP
  . Vehicle

Terrain and vegetation utilized for cover and concealment

Establishment reported within 100m of location

Operate OPs

Discipline maintained:
  . Noise
  . Camouflage
  . Smoking

Observers rotated every 30 minutes

Binoculars used for observation

Concealed routes used for movement

Positions improved continuously
<table>
<thead>
<tr>
<th>Driver performs maintenance checks and services</th>
<th>V</th>
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<th>S</th>
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<tbody>
<tr>
<td>Situation reports submitted every 30 minutes (or by SOP)</td>
<td>V</td>
<td>V</td>
<td>S</td>
</tr>
<tr>
<td>Range cards prepared:</td>
<td>V</td>
<td>V</td>
<td>S</td>
</tr>
<tr>
<td>Commander's weapon</td>
<td>V</td>
<td>V</td>
<td>S</td>
</tr>
<tr>
<td>M60 MG</td>
<td>V</td>
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<tr>
<td>Visual signals utilized between positions</td>
<td>V</td>
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<tr>
<td>Radio traffic kept to minimum</td>
<td>V</td>
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<tr>
<td>Radio security maintained</td>
<td>V</td>
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</tbody>
</table>

**Withdraw OPs**

| Withdraw by covered/concealed routes            | V | V | S |
| Security maintained during withdrawal          | V | V | S |
| All equipment withdrawn, site policed          | V | V | S |
| Withdrawal reported                             | V | V | S |
Route Reconnaissance Overlay
(Refer to raters' predetermined overlay for conditions, accuracy, and symbols)

Overlay prepared

Overlay accurately depicts actual conditions of route

Locations on overlay are accurate (within 100 meters)

Symbols used properly

Information is complete

Score Key
+ = GO
- = NO GO
0 = Should have performed but did not

V V S
C D O
Specific Reconnaissance Order

Given orally by Platoon Leader

"At ____ hours Task Force Bravo will move to the vicinity of Check Point Betty along Axis Yellow. It will be necessary for them to cross at the bridge located at _____. There is no information known about the bridge. I want you to check the site, classify the bridge and submit a report to me by ____ hours so the alternate route can be used if necessary. Aggressor activity was heavy in that area until two days ago when most forces appear to have been withdrawn. Be alert and check closely for mines or any indication that the bridge was prepared for demolition. If the bridge is passable, battalion will send a force to secure it. Any questions?"
MODULE III: SPECIFIC RECONNAISSANCE

PURPOSE

The purposes of Module III are to assess:
1. Individuals' ability to conduct specific reconnaissance.
2. Individuals' ability to reconnoiter an enemy minefield.
3. Individuals' ability to prepare and detonate an explosive charge.
4. Individuals' ability to classify a bridge.
5. Individuals' conduct of security and movement under tactical conditions.

CREW MEMBER ACTIVITIES

The vehicle commander formulates his plan and briefs his crew upon receiving the oral order from the platoon leader. The crew will move to the site of the specific reconnaissance. Reconnaissance at the site will reveal the presence of enemy mines necessitating:
1. Probing for mines.
2. Destruction of one mine.

When the minefield has been breached the crew will classify the bridge and report the results to the platoon leader.

CONDITIONS

This module is to be administered during daylight hours at a bridge site not less than 1 KM from the OP site. The bridge cannot be by-passed. A minefield must be emplaced in a manner to facilitate discovery by visual observation. Only one mine will block the passage lane to the bridge. The mine will contain aggressor markings. The operation is initiated when the platoon leader issues the order at the OP site in Module II.

RATER ACTIVITIES

The platoon leader/rater will issue the order at the OP site in Module II. The platoon leader/rater will respond to all tested vehicle radio traffic and will initiate or respond to radio traffic to insure the test situations and time limitations are being followed. He will specifically respond to the minefield report by requiring that the blocking mine be blown in place by demolition. Raters will follow the tested vehicle in a trail vehicle to the bridge site. Raters
will dismount to observe the demolition and bridge classification activities. Each rater must observe independently each of the operations on the attached checklist. The raters will not question crew members, indicate the ratings that are being given, or prompt crew members in any way other than required realistic interaction between the platoon leader/rater and the vehicle commander. When the vehicle commander reports the results of the bridge classification, the platoon leader/rater will issue the order for Module IV by radio.

RATER EQUIPMENT AND MATERIAL

Evaluation sheets, Module III, attached
Script for Night Mission, attached
Map, 1:50,000
CEOI extract
Binoculars
Bridge classification data & demolition charge required—predetermined
Trail vehicle w/radios
CVC, headset or external speaker

PERFORMANCE ASSESSMENT

Module III must be completed within 2 hours of issue of the order in Module II by the platoon leader.

Using the attached checklist, each rater will independently assign a GO, NO-GO, or NOT PERFORMED to each item. No partial credit will be given for performance. Each item is either "all-go" or it is rated NO-GO.

The following guidelines will be used to judge adequacy of performance of the items on the checklist:

1. When operating the H114AI, the driver must:
   - Operate the vehicle in a manner to enhance the accomplishment of the mission with minimum direction from the vehicle commander.
   - Select his course of movement by viewing and analyzing the terrain prior to movement.
   - Position the vehicle, both moving and at the halt, to take advantage of terrain and vegetation.
   - Evaluate soil condition through color and vegetation to avoid impassable ground.
2. Mine is inspected for:
   - Type
   - Markings
   - Identifying characteristics

3. Security elements must:
   - Maintain cover and concealment
   - Cover 360°
   - Not divert attention to activities at the bridge site

4. Demolition safety precautions include:
   - No smoking around explosive and detonating cord
   - Responsibility for work must not be divided
   - All personnel are prone behind solid cover
   - All personnel wear helmets
   - Minimum distance of covered personnel from blast is 300 feet

5. Minimize radio traffic:
   - Reports not required by SOP or immediately by the situation are not submitted by radio
   - Reports required are submitted by:
     - SOP format or
     - Who
     - What
     - Where
     - When
     - Activity

6. Maintain radio security:
   - Friendly information not sent in the clear
   - Correct radio-telephone procedure used
   - Codes and clear text not interchanged

ATTACHMENTS
Schematic diagram, Module III
Evaluation sheets, Module III, Specific Reconnaissance Order for Night Operation
INSTRUCTIONS FOR COMPLETING RATING SHEET

If the vehicle commander (VC), vehicle driver (VD) or scout observer (SO) performs the listed task correctly enter the GO symbol (+) in the box under the duty position. If the task is performed incorrectly or incompletely enter the NO GO symbol (-) under the duty position. In all situations rate the individual who actually performed the task.

If the task is not performed by any crew member, enter the "Should have performed but did not" symbol (0) under the duty position for the crew member who should have performed the task at that time.

If you did not observe the task, do not enter a rating. Determine ratings on what you observe; not on what you think occurred. Do not ask other raters what they observed.

EXAMPLE

Mine inspected

Results of inspection reported

Security maintained

SCORE KEY

+ = GO
- = NO GO
0 = Should have performed but did not

In the above example the mine was inspected correctly by the scout observer. However, the vehicle commander did not submit a report to the platoon leader and he was given a rating for "Should have performed but did not." Both the vehicle commander and the vehicle driver were maintaining security. The vehicle commander was performing correctly but the vehicle driver, while performing the task, was not doing it correctly or completely.
Crew Briefing

Vehicle commander marks bridge location on map

Vehicle commander briefs crew on:

. Mission
. Situation
. Route to objective
. Time of departure

Movement

Operate M114

Vehicle travels by most direct covered and concealed route

Bridge approached from covered/concealed direction

Bridge Site

Local security established

Bridge visually reconnoitered from covered/concealed position

SCORE KEY

V C D S

+ = GO
- = NO GO
0 = Should have performed but did not

60
Minefield reported

Mounted overwatch maintained

Minefield approached on foot

Probe for mine:
. One individual designated to probe
. Prober removes rings, watch helmet, LBE
. Prober rolls up sleeves
. Prober checks for tripwires and pressure prongs
. Prober uses brass spike probe
. Prober covers front not exceeding 1 meter
. Probe inserted every 2" at less than 45° angle

Destruction of Mine

Mine inspected
Results of inspection reported

Security maintained

Proper explosive charge selected (1 lb)

Charge is placed on top of mine

Fuze is tested for burning rate

Explosive charge primed and fuzed

Charge detonated

Safety precautions maintained:
  - Before demolition
  - During demolition

Destruction reported

Mission continued (within 2 minutes after destruction)

Bridge Classification

Security maintained
Condition of bridge determined by inspection

Roadway width determined

Vertical clearance determined

Span length determined

Type, size and number of stringers determined

Type and thickness of decking determined

Lateral braces determined

Final bridge classification correctly determined

Classification report submitted

Radio traffic kept to a minimum

Radio security maintained

SCORE KEY

+ = GO
- = NO GO
0 = Should have performed but did not
Night Operation Order

(By Platoon Leader)
(By radio - encoded or secure)

"Move to _______ and establish an LP. Orient your post facing ______ degrees, (or covering area specified by coordinates). Be prepared to occupy the post until ______ hours tonight. Report when position is established."
MODULE IV: NIGHT OPERATIONS

PURPOSE

The purposes of Module IV are to assess:
1. Individuals' ability to establish and operate an LP.
2. Individual conduct of movement and security during darkness.
3. Individuals' ability to acquire targets during darkness.

CREW MEMBER ACTIVITIES

The vehicle commander briefs his crew on the mission upon receiving the oral order from the platoon leader and the crew moves to the LP site. The crew will:
1. Establish an LP.
2. Occupy an LP.
3. Withdraw from an LP.
The crew will report any enemy activity observed during occupation of the LP.

CONDITIONS

This module is to be administered after sunset with movement and LP site selection by the crew occurring before the end of EENT. The LP area will be located on high ground at least 1 KM from the bridge site (Module III). Enemy activity in front of the LP will consist of vehicle movement, personnel movement, flares and sounds. The operation is initiated when the platoon leader issues the order by radio at the bridge site in Module III. The order for Module V will be issued by radio upon completion of occupation of the LP.

RATER ACTIVITIES

The platoon leader/rater will issue the order over the radio at the bridge site (Module III). The platoon leader/rater will respond to all tested vehicle radio traffic and will initiate or respond to radio traffic to insure the test situations and time limitations are being followed. Raters will follow the tested crew in
a trail vehicle during the movement phase. Raters will
dismount and position themselves to observe LP establishment.
Raters will utilize passive night vision devices during the
occupation of the LP to check the viewing techniques of the
tested individuals. Enemy activity, consisting of personnel
moving in the open, a wheeled vehicle being started and moved,
flares and sounds, will be initiated by radio by the platoon
leader/rater. Each rater must observe independently each of
the operations on the attached checklist. The raters will
not question crew members, indicate the ratings that are
being given or prompt crew members in any way other than
required by the realistic interaction between the platoon
leader/rater and the vehicle commander. When the LP has
been occupied for a minimum of one hour the platoon leader/
rater will issue the order by radio for Module V.

RATER EQUIPMENT AND MATERIAL

- Evaluation sheets, Module IV, attached
- Script for return mission order, attached
- Map 1:50,000
- CEQI extract
- Binoculars
- Night vision devices
- Radio, PRC 77
- Enemy locations, predetermined by distance, direction and
  activity
- Trail vehicle w/radios
- CVC, headset or external speaker

PERFORMANCE ASSESSMENT

Module IV must be completed within 2 hours of issue of the
order in Module III by the platoon leader.

Using the attached checklist, each rater will independently
assign a GO, NO-GO, or NOT PERFORMED to each item. No
partial credit will be given for performance. Each item is
either "all-go" or it is rated NO-GO.

The following guidelines will be used to judge adequacy of
performance of the items on the checklist:

1. When operating the M114, the driver must:
   - Operate the vehicle in a manner to enhance the
     accomplishment of the mission with minimum direction
     from the vehicle commander.
Select his course of movement by viewing and analyzing the terrain prior to movement.
Position the vehicle, both moving and at the halt, to take advantage of terrain and vegetation.
Evaluate soil condition through color and vegetation to avoid impassable ground.
Ascend steep slopes in a straight line and without shifting.
Cross obstacles by accelerating, decelerating and accelerating.
Maintain steady speed during movement.
Select the route that offers the least obstacles consistent with the mission.
Descend steep slopes by braking with the engine.
Avoid abrupt turns especially on side slopes.
Perform during operation and at halt maintenance.

2. Vehicle position at the LP must:
   - Provide support for the dismounted LP.
   - Provide protection for the vehicle.
   - Allow rapid exit.

3. LP site selected must:
   - Take advantage of cover and concealment.
   - Allow field of view in both width and depth.
   - Avoid landmarks.
   - Cover likely avenues of approach.
   - Provide easy access and exit at night.
   - Provide fields of fire.

4. Use night vision devices: (must not be used continuously)
   - By scanning the area at intervals.
   - By passive viewing to detect enemy active devices.
   - To check out suspected activities.

5. Reaction to illumination includes:
   - Taking cover immediately when flare pops.
   - Not moving during illumination.
   - Closing one eye and observing sector.

6. Minimize radio traffic:
   - Reports not required by SOP or immediately by the situation are not submitted by radio.
   - Reports required are submitted by:
     - SOP format or,
     - Who.
     - What.
     - Where.
     - When.
     - Activity.
7. Maintain radio security:
   . Friendly information not sent in the clear.
   . Correct radio-telephone procedure used.
   . Codes and clear text not interchanged.

ATTACHMENTS
   Schematic Diagram Module IV
   Evaluation Sheets Module IV, Night Mission
   Order for return mission
INSTRUCTIONS FOR COMPLETING RATING SHEET

If the vehicle commander (VC), vehicle driver (VD) or scout observer (SO) performs the listed task correctly enter the GO symbol (+) in the box under the duty position. If the task is performed incorrectly or incompletely enter the NO GO symbol (-) under the duty position. In all situations rate the individual who actually performed the task.

If the task is not performed by any crew member, enter the "Should have performed but did not" symbol (0) under the duty position for the crew member who should have performed the task at that time.

If you did not observe the task, do not enter a rating. Determine ratings on what you observe; not on what you think occurred. Do not ask other raters what they observed.

EXAMPLE

Mine inspected

Results of inspection reported

Security maintained

SCORE KEY

+ = GO

- = NO GO

0 = Should have performed but did not

In the above example the mine was inspected correctly by the scout observer. However, the vehicle commander did not submit a report to the platoon leader and he was given a rating for "Should have performed but did not." Both the vehicle commander and the vehicle driver were maintaining security. The vehicle commander was performing correctly but the vehicle driver, while performing the task, was not doing it correctly or completely.
Crew Briefing

Vehicle commander locates LP site on map

Vehicle commander briefs crew on:

- Mission
- Location of LP site
- Departure time
- Route to LP site

Movement

Operate M114

All sectors observed (360°)

Vehicle moves to LP site by most direct covered/concealed route

Correct LP site located (as designated in LP order)

Establish LP

Security search made of LP site

SCORE KEY

V V S
C D O

+ = GO
- = NO GO
0 = Should have performed but did not
<table>
<thead>
<tr>
<th>Action</th>
<th>V</th>
<th>C</th>
<th>D</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Security of site established</td>
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<tr>
<td>Individual LP site selected</td>
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<tr>
<td>Vehicle positioned</td>
<td></td>
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<tr>
<td>M60 machinegun dismounted</td>
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<tr>
<td>Vehicle position allows fire support of LP</td>
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<tr>
<td>Range cards prepared:</td>
<td></td>
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<tr>
<td>. M60</td>
<td></td>
<td></td>
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<tr>
<td>. Commander's weapon</td>
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<tr>
<td>Terrain and vegetation utilized for cover and concealment</td>
<td></td>
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<tr>
<td>LP site reported when established (within 100m)</td>
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<tr>
<td>Communications established</td>
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<tr>
<td>Trip flares installed</td>
<td></td>
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<tr>
<td>Discipline maintained:</td>
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<tr>
<td>. Noise</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>. Light</td>
<td></td>
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</tbody>
</table>
Operate LP

Observer rotated every 20 minutes

Night vision devices utilized

Observations reported:

- Personnel
- Vehicle
- Noises

Discipline maintained:

- Noise
- Light

React to illuminating flares

Fire discipline maintained

Radio security maintained

Radio traffic kept to a minimum

SCORE KEY
+ = GO
- = NO GO
0 = Should have performed but did not
Withdraw LPs

All equipment withdrawn

Security maintained

Discipline maintained:
  . Noise
  . Light

SCORE KEY
+ = GO
- = NO GO
0 = Should have performed but did not

V V S
C D O
Return Order

(By platoon leader)
(By radio - encoded or secure)

"You are to withdraw the LP at _______ hours. Return to night assembly area vicinity _______. Maintain blackout during movement. Establish contact with elements of Company C at coordinates _______."
MODULE V: POST OPERATIONS

PURPOSE

The purposes of Module V are to assess:
1. Individuals' conduct of night mounted movement.
2. Individuals' ability to establish contact with friendly forces at night.
3. Crew members' ability to conduct after operation maintenance checks and services on the vehicle, weapons and equipment.

CREW MEMBER ACTIVITIES

The crew will move blackout to the contact point/dismount point. At the assembly area the crew will perform after-operation maintenance checks and services on the vehicle, clean and service weapons and clean and turn in equipment used on the test.

CONDITIONS

This module is administered during darkness over an established route not less than 3 KM. Friendly personnel will man the contact point and will direct the crew to move to the assembly area under blackout. The assembly area will be lighted with maintenance support available. Operations will be initiated by radio order from the platoon leader.

RATER ACTIVITIES

The platoon leader/rater will issue the order by radio while the crew is at the LP in Module IV. The platoon leader/rater will respond to all tested vehicle radio traffic and will initiate or respond to radio traffic to insure the test situations, control measures and time limitations are being followed. Raters will follow the tested vehicle in a trail vehicle during movement. At the contact point, raters will dismount and position themselves to observe the actions at the location. Raters will move dismounted to the assembly area to observe the actions of the ground guide and driver. Each rater must observe independently each of the operations on the attached checklist. The raters will not question crew members, indicate the ratings being given or prompt crew members in any way other than required by realistic interaction between the platoon leader/rater and the vehicle commander.
RATER EQUIPMENT AND MATERIAL

Evaluation sheets, Module V, attached
Map, 1:50,000
CEOI extract
Trail vehicle w/radios
CVC, headset or external speaker
TM 9-2320-224-10

PERFORMANCE ASSESSMENT

Module V must be completed within one hour and 30 minutes of issue of the order in Module IV by the platoon leader.

Using the attached checklist, each rater will independently assign a GO, NO-GO, or NOT PERFORMED to each item. No partial credit will be given for performance. Each item is either "all-go" or it is rated NO-GO.

The following guidelines will be used to judge adequacy of performance of the items on the checklist:

1. Minimize radio traffic:
   - Reports not required by SOP or immediately by the situation are not submitted by radio.
   - Reports required are submitted by:
     - SOP format or,
     - Who.
     - What.
     - Where.
     - When.
     - Activity.

2. Maintain radio security:
   - Friendly information not sent in the clear.
   - Correct radio-telephone procedure used.
   - Codes and clear text not interchanged.

3. Dismounted individual at the contact point must maintain cover and concealment until identities are established.

4. Ground guide must:
   - Use filtered flashlight.
   - Relay signals to position the vehicle in the required direction.
   - Be followed by the vehicle driver.
5. The TM must be followed when performing post operation checks and services. Maintenance support and parts must be requested if they are needed.

6. Logbook must reflect:
   - Miles driven.
   - Fuel added.
   - Oil added.
   - Parts on request.

ATTACHMENTS
   Schematic diagram, Module V
   Evaluation sheets, Module V, Post operations
INSTRUCTIONS FOR COMPLETING RATING SHEET

If the vehicle commander (VC), vehicle driver (VD) or scout observer (SO) performs the listed task correctly enter the GO symbol (+) in the box under the duty position. If the task is performed incorrectly or incompletely enter the NO GO symbol (−) under the duty position. In all situations rate the individual who actually performed the task.

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EXAMPLE

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Results of inspection reported

Security maintained

SCORE KEY

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Crew Briefing

Vehicle commander marks location of assembly area and contact point on map

Vehicle commander briefs crew on:

- Mission
- Route of movement
- Contact point
- Departure time

Movement

Operate M114 blackout:

- Use blackout drive
- Reduce vehicle speed
- Follow roadway
- Avoid obstacles

Light discipline maintained

Radio security maintained

Radio traffic kept to a minimum
**Contact Point**

<table>
<thead>
<tr>
<th>Task</th>
<th>V</th>
<th>C</th>
<th>D</th>
<th>O</th>
</tr>
</thead>
<tbody>
<tr>
<td>Locate contact point on the ground (within 100m as specified in order)</td>
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<tr>
<td>Dismount individual</td>
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<td></td>
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<tr>
<td>Maintain mounted overwatch and security</td>
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<tr>
<td>Establish contact</td>
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<tr>
<td>Maintain security dismounted</td>
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<tr>
<td>Utilize sign/countersign</td>
<td></td>
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<td></td>
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<tr>
<td>Clear weapons:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>. M60</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>. Individual</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maintain light discipline</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Ground guide vehicle during darkness</td>
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<tr>
<td>Follow ground guide during darkness</td>
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</tbody>
</table>

**Post Operations**

Perform after operation maintenance checks and services on M114A1:
<table>
<thead>
<tr>
<th>Item</th>
<th>Score Key</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tracks</td>
<td></td>
</tr>
<tr>
<td>Suspension</td>
<td></td>
</tr>
<tr>
<td>Engine oil</td>
<td></td>
</tr>
<tr>
<td>Transmission oil</td>
<td></td>
</tr>
<tr>
<td>Geared steering unit oil</td>
<td></td>
</tr>
<tr>
<td>Fuel</td>
<td></td>
</tr>
<tr>
<td>Disassemble and clean:</td>
<td></td>
</tr>
<tr>
<td>Individual weapons</td>
<td></td>
</tr>
<tr>
<td>M60</td>
<td></td>
</tr>
<tr>
<td>Commander's weapon</td>
<td></td>
</tr>
<tr>
<td>Close out logbook</td>
<td></td>
</tr>
<tr>
<td>Clean and turn in special equipment</td>
<td></td>
</tr>
</tbody>
</table>