

Change No. 1

Headquarters  
Department of the Army  
Washington DC, 22 February 2011

## 40-mm Grenade Launchers

1. Change TM 3-22.31, 24 January 2011, as follows:

**Remove old pages:**

iii through iv  
4-7 through 4-8  
A-5 and A-6  
None

**Insert new pages:**

iii through iv  
4-7 through 4-8  
A-5 and A-6  
Insert blank DA Form 7680-R  
in back of TM

2. A star (\*) marks new or changed material.
3. File this transmittal sheet in front of the publication.

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- Maintain an M320 grenade launcher.
- Install mounting brackets, the leaf sight assembly, and the DNS on the M320 grenade launcher.
- Load, unload, and place the M320 grenade launcher on SAFE.
- Correct malfunctions on an M320 grenade launcher.
- Identify 40-mm ammunition and their purpose.

4-13. As a minimum, the 40-mm grenade launcher skills test must be administered semi-annually for Regular Army units and annually for reserve component (RC) units prior to live-fire qualification with results recorded on DA Form 7680-R.

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*Note.* See Appendix C for conduct of the M320 40-mm grenade launcher skills test.

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M320/M320A1 40-mm GRENADE LAUNCHER SCORECARD									
For use of this form, see TM 3-22.31; the proponent agency is TRADOC.									
NAME (First, Last, MI) <i>SPC Joseph Sears</i>					UNIT <i>2 BN 29th INF</i>	DATE (YYYYMMDD) <i>20100401</i>			
ZERO LEAF SIGHT	DEFILADE		ELEVATION		RATING SCALE				
RECORD FIRE	TASK NO.	TIME (MIN)	TGT	HIT	MISS	TOTAL POINTS (Block 7)	RATING		
DAY	1	2	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	80 - 90	EXPERT <input type="checkbox"/>		
			2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	70 - 75	FIRST CLASS <input checked="" type="checkbox"/>		
	2	2	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	60 - 65	SECOND CLASS <input type="checkbox"/>		
			2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0 - 55	UNQUALIFIED <input type="checkbox"/>		
	CBRN	3	2	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
4		2	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GRADER'S INITIALS <i>B Rom</i> DATE (YYYYMMDD) <i>20100401</i>			
NIGHT	5	2	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	OIC'S INITIALS <i>JCS</i> DATE (YYYYMMDD) <i>20100401</i>			
	6	2	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
TOTAL POINTS (Award 10 points for each hit) <b>70</b>									
M320/M320A1 40-mm GRENADE LAUNCHER SKILLS TEST									
NAME <i>Joseph Sears</i>					DATE (YYYYMMDD) <i>20100401</i>				
STATION 1 MAINTAIN AN M320 GL			GO	NO-GO	STATION 4 CORRECT MALFUNCTION ON M320			GO	NO-GO
1. CLEARED THE M320.			<input checked="" type="checkbox"/>	<input type="checkbox"/>	1. KEPT THE WEAPON POINTED AT THE TARGET.			<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. DISASSEMBLED THE M320.			<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. WAITED 30 SECONDS THEN OPENED THE BREACH.			<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. INSPECTED THE M320.			<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. REMOVED THE ROUND.			<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. REASSEMBLED THE M320.			<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. EXAMINED THE PRIMER.			<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. PERFORMED A FUNCTION CHECK.			<input checked="" type="checkbox"/>	<input type="checkbox"/>					
STATION 2 INSTALL MOUNTING BRACKETS, LEAF SIGHT ASSEMBLY, AND DNS.			GO	NO-GO	STATION 5 ID AMMO			GO	NO-GO
1. INSTALLED MOUNTING BRACKETS.			<input checked="" type="checkbox"/>	<input type="checkbox"/>	1. IDENTIFIED THE M781 TP ROUND.			<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. INSTALLED LEAF SIGHT.			<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. IDENTIFIED THE M406 HE ROUND.			<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. INSTALLED DNS.			<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. IDENTIFIED THE M433 HE ROUND.			<input checked="" type="checkbox"/>	<input type="checkbox"/>
STATION 3 LOAD, UNLOAD, AND PLACE M320 ON SAFE			GO	NO-GO	4. IDENTIFIED THE M585 STAR CLUSTER ROUND.			<input checked="" type="checkbox"/>	<input type="checkbox"/>
1. LOADED.			<input checked="" type="checkbox"/>	<input type="checkbox"/>	5. IDENTIFIED THE M583 (WHITE), M661 (GREEN), AND M662 (RED) STAR PARACHUTE ROUNDS.			<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. UNLOADED.			<input checked="" type="checkbox"/>	<input type="checkbox"/>	6. IDENTIFIED THE M713 (RED), M715 (GREEN), AND M716 (YELLOW) GROUND SMOKE MARKER ROUNDS.			<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. PLACED ON SAFE.			<input checked="" type="checkbox"/>	<input type="checkbox"/>	7. IDENTIFIED THE M992 INFRARED ILLUMINANT ROUND.			<input checked="" type="checkbox"/>	<input type="checkbox"/>
GRADER'S INITIALS <i>ERW</i> DATE (YYYYMMDD) <i>20100401</i>			OIC'S INITIALS <i>JCS</i> DATE (YYYYMMDD) <i>20100401</i>						

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APD PE v1.00

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\*Figure 4-4. Example completed DA Form 7680-R (M320/M320A1 40-mm Grenade Launcher Scorecard).

- Execute risk reduction controls selected by the commander by developing and implementing supporting leader level controls. Apply risk management procedures to each.

## Individual

A-1. All Soldiers must understand how to use the CRM process to enhance mission success and to reduce or eliminate loss.

A-2. During implementation of the CRM process, Soldiers—

- Support commanders and leaders in the rapid identification and communication of hazards and associated risks that may impact on the mission.
- Provide immediate feedback to the leader as the mission progresses and hazards are encountered. Use short written messages, hand and arm signals, or radio transmissions to communicate first-hand information to leaders.
- In extreme situations, act alone or make risk decisions within the context of orders.

## DA FORM 7566 (COMPOSITE RISK MANAGEMENT WORKSHEET)

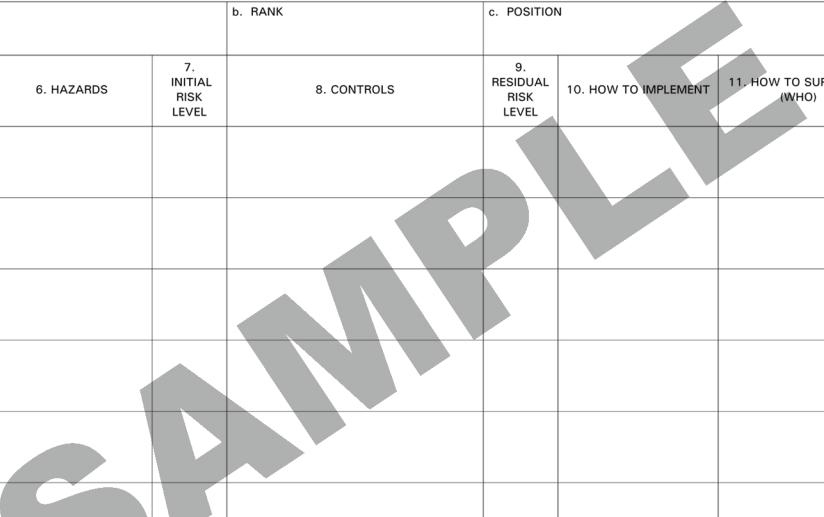
A-3. DA Form 7566 (*Composite Risk Management Worksheet*, Figure A-1) provides a starting point to logically track the CRM process. It can be used to document risk management steps taken during planning, preparation, and execution of training and combat missions.

A-4. See Table A-5 for instructions on completing DA Form 7566.

**Table A-5. Worksheet instructions**

ITEM	INSTRUCTION
1 through 4	Self-explanatory.
5	Subtask relating to the mission or task in Block 1.
6	Hazards—Identify hazards by reviewing METT-TC factors for the mission or task. Additional factors include historical lessons learned, experience, judgment, equipment characteristics and warnings, and environmental considerations.
7	Initial Risk Level—Factors include historical lessons learned, intuitive analyses, experience, judgment, equipment characteristics and warnings, and environmental considerations. Determine the initial risk for each hazard by applying the risk assessment matrix. Enter the risk level for each hazard.
8	Controls—For each hazard, develop one or more controls that will eliminate the hazard or reduce the risk of a hazardous incident. Specify who, what, where, why, when, and how for each control. Enter controls.
9	Residual Risk Level—Determine the residual risk for each hazard by applying the risk assessment matrix. Enter the residual risk level for each hazard.
10	How to Implement—Decide how each control will be put into effect or communicated to the personnel who will make it happen (written or verbal instruction; tactical, safety, garrison SOPs; rehearsals). Enter controls.
11	How to Supervise (Who)—Plan how each control will be monitored for implementation (continuous supervision, spot-checks) and reassess hazards as the situation changes. Determine if the controls worked and if they can be improved. Pass on lessons learned.
12	Was Control Effective—Indicate “Yes” or “No.” Review during AAR.
13	Overall Risk Level—Select the highest residual risk level and circle it. This becomes the overall mission or task risk level. The commander decides whether the controls are sufficient to accept the level of residual risk. If the risk is too great to continue the mission or task, the commander directs development of additional controls or modifies, changes, or rejects the COA.
14	Risk Decision Authority—Signed by the appropriate level of command.

## Appendix A

COMPOSITE RISK MANAGEMENT WORKSHEET											
For use of this form, see FM 5-19; the proponent agency is TRADOC.											
1. MSN/TASK				2a. DTG BEGIN		2b. DTG END		3. DATE PREPARED /YYYYMMDD/			
4. PREPARED BY											
a. LAST NAME			b. RANK			c. POSITION					
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS			9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT		11. HOW TO SUPERVISE (WHO)		12. WAS CONTROL EFFECTIVE?
 <small>Additional space for entries in Items 5 through 11 is provided on Page 2.</small>											
13. OVERALL RISK LEVEL AFTER CONTROLS ARE IMPLEMENTED (Check one)											
<input type="checkbox"/> LOW		<input type="checkbox"/> MODERATE		<input type="checkbox"/> HIGH		<input type="checkbox"/> EXTREMELY HIGH					
14. RISK DECISION AUTHORITY											
a. LAST NAME			b. RANK			c. DUTY POSITION			d. SIGNATURE		

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DA FORM 7566, APR 2005

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**Figure A-1. Sample DA Form 7566 (*Composite Risk Management Worksheet*)**

M320/M320A1 40-mm GRENADE LAUNCHER SCORECARD																												
For use of this form, see TM 3-22.31; the proponent agency is TRADOC.																												
NAME (First, Last, MI)						UNIT		DATE (YYYYMMDD)																				
ZERO LEAF SIGHT		DEFILADE		ELEVATION		<b>RATING SCALE</b> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td colspan="2">TOTAL POINTS (Block 7)</td> <td colspan="2">RATING</td> </tr> <tr> <td colspan="2">80 - 90</td> <td colspan="2">EXPERT <input type="checkbox"/></td> </tr> <tr> <td colspan="2">70 - 75</td> <td colspan="2">FIRST CLASS <input type="checkbox"/></td> </tr> <tr> <td colspan="2">60 - 65</td> <td colspan="2">SECOND CLASS <input type="checkbox"/></td> </tr> <tr> <td colspan="2">0 - 55</td> <td colspan="2">UNQUALIFIED <input type="checkbox"/></td> </tr> </table>			TOTAL POINTS (Block 7)		RATING		80 - 90		EXPERT <input type="checkbox"/>		70 - 75		FIRST CLASS <input type="checkbox"/>		60 - 65		SECOND CLASS <input type="checkbox"/>		0 - 55		UNQUALIFIED <input type="checkbox"/>	
TOTAL POINTS (Block 7)		RATING																										
80 - 90		EXPERT <input type="checkbox"/>																										
70 - 75		FIRST CLASS <input type="checkbox"/>																										
60 - 65		SECOND CLASS <input type="checkbox"/>																										
0 - 55		UNQUALIFIED <input type="checkbox"/>																										
DAY	RECORD FIRE	TASK NO.	TIME (MIN)	TGT	HIT				MISS																			
		1	2	1	<input type="checkbox"/>				<input type="checkbox"/>																			
				2	<input type="checkbox"/>				<input type="checkbox"/>																			
		2	2	1	<input type="checkbox"/>	<input type="checkbox"/>																						
2				<input type="checkbox"/>	<input type="checkbox"/>																							
CBRN	3	2	1	<input type="checkbox"/>	<input type="checkbox"/>																							
			2	<input type="checkbox"/>	<input type="checkbox"/>																							
NIGHT	4	2	1	<input type="checkbox"/>	<input type="checkbox"/>																							
			5	<input type="checkbox"/>	<input type="checkbox"/>																							
TOTAL POINTS (Award 10 points for each hit)						OIC'S INITIALS	DATE (YYYYMMDD)																					
M320/M320A1 40-mm GRENADE LAUNCHER SKILLS TEST																												
NAME				DATE (YYYYMMDD)																								
<b>STATION 1</b> MAINTAIN AN M320 GL			GO	NO-GO	<b>STATION 4</b> CORRECT MALFUNCTION ON M320			GO	NO-GO																			
1. CLEARED THE M320.			<input type="checkbox"/>	<input type="checkbox"/>	1. KEPT THE WEAPON POINTED AT THE TARGET.			<input type="checkbox"/>	<input type="checkbox"/>																			
2. DISASSEMBLED THE M320.			<input type="checkbox"/>	<input type="checkbox"/>	2. WAITED 30 SECONDS THEN OPENED THE BREACH.			<input type="checkbox"/>	<input type="checkbox"/>																			
3. INSPECTED THE M320.			<input type="checkbox"/>	<input type="checkbox"/>	3. REMOVED THE ROUND.			<input type="checkbox"/>	<input type="checkbox"/>																			
4. REASSEMBLED THE M320.			<input type="checkbox"/>	<input type="checkbox"/>	4. EXAMINED THE PRIMER.			<input type="checkbox"/>	<input type="checkbox"/>																			
5. PERFORMED A FUNCTION CHECK.			<input type="checkbox"/>	<input type="checkbox"/>																								
<b>STATION 2</b> INSTALL MOUNTING BRACKETS, LEAF SIGHT ASSEMBLY, AND DNS.			GO	NO-GO	<b>STATION 5</b> ID AMMO			GO	NO-GO																			
1. INSTALLED MOUNTING BRACKETS.			<input type="checkbox"/>	<input type="checkbox"/>	1. IDENTIFIED THE M781 TP ROUND.			<input type="checkbox"/>	<input type="checkbox"/>																			
2. INSTALLED LEAF SIGHT.			<input type="checkbox"/>	<input type="checkbox"/>	2. IDENTIFIED THE M406 HE ROUND.			<input type="checkbox"/>	<input type="checkbox"/>																			
3. INSTALLED DNS.			<input type="checkbox"/>	<input type="checkbox"/>	3. IDENTIFIED THE M433 HE ROUND.			<input type="checkbox"/>	<input type="checkbox"/>																			
<b>STATION 3</b> LOAD, UNLOAD, AND PLACE M320 ON SAFE			GO	NO-GO	4. IDENTIFIED THE M585 STAR CLUSTER ROUND.			<input type="checkbox"/>	<input type="checkbox"/>																			
1. LOADED.			<input type="checkbox"/>	<input type="checkbox"/>	5. IDENTIFIED THE M583 (WHITE), M661 (GREEN), AND M662 (RED) STAR PARACHUTE ROUNDS.			<input type="checkbox"/>	<input type="checkbox"/>																			
2. UNLOADED.			<input type="checkbox"/>	<input type="checkbox"/>	6. IDENTIFIED THE M713 (RED), M715 (GREEN), AND M716 (YELLOW) GROUND SMOKE MARKER ROUNDS.			<input type="checkbox"/>	<input type="checkbox"/>																			
3. PLACED ON SAFE.			<input type="checkbox"/>	<input type="checkbox"/>	7. IDENTIFIED THE M992 INFRARED ILLUMINANT ROUND.			<input type="checkbox"/>	<input type="checkbox"/>																			
					8. IDENTIFIED THE M1006 NONLETHAL CARTRIDGE.			<input type="checkbox"/>	<input type="checkbox"/>																			
					9. IDENTIFIED THE M1029 CROWD DISPERSAL CARTRIDGE.			<input type="checkbox"/>	<input type="checkbox"/>																			
GRADER'S INITIALS			DATE (YYYYMMDD)		OIC'S INITIALS			DATE (YYYYMMDD)																				

CONDUCT OF A RECORD FIRE					
<p>ZEROING IS PERFORMED ON STATION 1 OF THE 40-mm GRENADE LAUNCHER RANGE. WHEN AT THIS STATION, THE GRENADIER ZEROES THE WEAPON (DNS AND LEAF SIGHT) BY FIRING FROM A PRONE SUPPORTED FIRING POSITION. AFTER THE GRENADIER HAS ZEROED THE WEAPON, HE RECORDS THE ZERO DATA FOR FUTURE REFERENCE.</p>					
DAY RECORD FIRE					
TASK	STATION	TIME IN MINUTES	ROUNDS	TYPE OF AMMUNITION	TARGET(S) AND RANGE(S)
1	2	2	3	TP	Window facade at 100m
					Small bunker at 125m
2	3	2	3	TP	Two-man bunker at 175m
					Automatic weapon position at 200m
3	4	2	3	TP	Troops in open emplacement at 250m
					Troops in open 350m
4	3	2	3	TP	Two-man bunker at 175m
5	3	2	3	TP	Automatic weapons position at 200m (CBRN)
NIGHT RECORD FIRE					
TASK	STATION	TIME IN MINUTES	ROUNDS	TYPE OF AMMUNITION	TARGET(S) AND RANGE(S)
6	3	2	3	HE	Automatic weapons position at 200m
CONDUCT OF A 40-mm GRENADE LAUNCHER SKILLS TEST					
<p>BEFORE PERFORMING LIVE FIRE, SOLDIERS TAKE THE 40-mm GRENADE LAUNCHER SKILLS TEST. THIS EXERCISE IS USED TO DETERMINE THE GRENADIER'S PROFICIENCY ON DRY-FIRE TASKS ASSOCIATED WITH THE M320 40-mm GRENADE LAUNCHER. USING FIVE STATIONS, SOLDIERS MUST DEMONSTRATE PROFICIENCY ON THE FOLLOWING TABLE:</p> <ul style="list-style-type: none"> <li>- MAINTAIN AN M320 GRENADE LAUNCHER.</li> <li>- INSTALL MOUNTING BRACKETS, THE LEAF SIGHT ASSEMBLY, AND THE DNS ON THE M320 GRENADE LAUNCHER.</li> <li>- LOAD, UNLOAD, AND PLACE THE M320 GRENADE LAUNCHER ON SAFE.</li> <li>- CORRECT MALFUNCTIONS ON AN M320 GRENADE LAUNCHER.</li> <li>- IDENTIFY 40-mm AMMUNITION AND THEIR PURPOSE.</li> </ul>					
<p>NOTES:</p> <ol style="list-style-type: none"> <li>1. TRAINERS NEED NOT CONDUCT THIS EXAMINATION ON A RANGE; IT MAY BE CONDUCTED INDOORS IF FACILITIES ARE AVAILABLE.</li> <li>2. THE SKILLS TEST IS ADMINISTERED USING TASKS, CONDITIONS, STANDARDS, ADMINISTRATIVE GUIDELINES, AND PERFORMANCE CHECKLISTS.</li> <li>3. COMMANDERS MAY ADD TO, BUT NOT DELETE FROM, TASKS ON THE SKILLS TEST. ONCE BASIC PROFICIENCY HAS BEEN ATTAINED, COMMANDERS CAN INCLUDE SPECIAL CONDITIONS, SUCH AS CBRN OR LIMITED VISIBILITY.</li> <li>4. SEE APPENDIX C OF TM 3-22.31 FOR MORE INFORMATION.</li> </ol>					

**PIN: 100539-001**