

# FOR OFFICIAL USE ONLY

## STUDENT PE GRADE SHEET

U.S. ARMY  
FIELD ARTILLERY SCHOOL  
Communications/Electronics Department  
Fort Sill, Oklahoma

AIT  
PRACTICAL EXAM  
JAN 90

STUDENT NAME \_\_\_\_\_ MOS GRADED \_\_\_\_\_

TOTAL STUDENT POINTS \_\_\_\_\_

GRADERS INITIALS \_\_\_\_\_

W19600

1

# FOR OFFICIAL USE ONLY

# FOR OFFICIAL USE ONLY

## PRACTICAL EXAMINATION ONE

NOTE TO GRADER: A check mark in the grade column indicates that the student has correctly completed that performance measure. If a student fails a performance measure, the grader should point out the correct condition and mark in the GRADE column the number of points the student lost.

REQUIREMENT: PREPARE RADIO SET AN/PRC-77 FOR OPERATION.

The grader will check the following performance measures:

	<u>POINT VALUE</u>	<u>GRADE</u>
Were RT-841 REC-TRANS dials placed to the assigned frequency?	20	
2. Was handset properly connected to the RT-841?	15	
3. Was RT-841 FUNCTION switch in the SQUELCH position?	10	
4. Was antenna AT-892 properly installed?	15	
5. Was battery BA-4386 properly installed?	20	
6. Was POWER connector plug (dummy plug) properly installed?	20	
TOTAL POINTS POSSIBLE:	100	
TOTAL STUDENT POINTS:		

# FOR OFFICIAL USE ONLY

## PRACTICAL EXAMINATION TWO

REQUIREMENT: PREPARE RADIO SET AN/VRC-64 (AN/GRC-160 VEHICULAR MODE) FOR OPERATION.

The grader will check the following performance measures:

	<u>POINT VALUE</u>	<u>GRADE</u>
1. Was amplifier AM-1780 MAIN PWR set to NORM?	5	
2. Was the dust cover removed from the MT-1029 junction box?	10	
3. Was AM-2060 properly secured in the mount?	5	
4. Was RT-841 properly secured in the amplifier?	5	
5. Was amplifier PWR switch placed on?	10	
6. Was amplifier SPKR SWITCH placed to OFF	5	
7. Was POWER cable (CX-4655) properly connected?	10	
8. Were RT-841 REC-TRANS dials placed to the assigned frequency?	10	
9. Was handset properly connected to the RT-841?	5	
10. Was RT-841 FUNCTION switch in the SQUELCH position?	5	
1. Was RF cable properly connected to RT and to matching unit?	10	
12. Was Antenna Matching Unit control placed to correct band?	10	
13. If installed, was battery BA-4386 removed from the RT-841?	10	
	TOTAL POINTS POSSIBLE:	100
	TOTAL STUDENT POINTS:	

# FOR OFFICIAL USE ONLY

## PRACTICAL EXAMINATION THREE

REQUIREMENT: PREPARE RADIO SET AN/VRC-46 FOR OPERATION

The grader will check the following performance measures:

		POINT VALUE	GRADE
1.	Was amplifier AM-1780 MAIN PWR set to NORM?	5	
2.	Was the dust cover removed from the MT-1029 junction box?	10	
3.	Was the RT properly secured in the mount?	5	
4.	Was the RF cable properly connected to RT and to matching unit?	10	
5.	Was the RT-524 SPEAKER switch placed to OFF?	5	
6.	Was the RT-524 X-MODE receptacle cover locked in place?	10	
7.	Was the handset properly connected to the RT-524?	5	
8.	Was the RT-524 LIGHT switch placed to ON?	10	
9.	Was the RT-524 POWER switch placed to low?	10	
10.	Was the RT-524 properly set to the operating frequency?	10	
11.	Was the RT-524 squelch switch placed to new on?	10	
12.	Was Antenna Matching Unit BAND control set up to proper band?	10	
	TOTAL POINTS POSSIBLE	100	
	TOTAL STUDENT POINTS:		

# FOR OFFICIAL USE ONLY

## PRACTICAL EXAMINATION FOUR

REQUIREMENT: PREPARE THE INTERCOMMUNICATION SET AN/VIC-1 FOR OPERATION

The grader will check the following performance measures:

	<u>POINT VALUE</u>	<u>GRADE</u>
AMPLIFIER AM-1780:		
1. Was POWER CKT BKR placed to ON?	15	
2. Was MAIN PWR set to NORM?	10	
3. Was INT ACCENT placed ON?	10	
4. Was RADIO TRANS set to CDR only?	15	
5. Was INSTALLATION SWITCH set to OTHER?	10	
COMMANDER CONTROL BOX:		
6. Was CDR's control box MONITOR switch placed to "A"?	10	
7. Was CDR's H-161 properly connected?	10	
	<u>POINT VALUE</u>	<u>GRADE</u>
CREW CONTROL BOX:		
8. Was CREW's control box MONITOR switch placed to "INT ONLY"?	10	
9. Was CREW's H-161 properly connected?	10	
	TOTAL POINTS POSSIBLE:	100
	TOTAL STUDENT POINTS:	

# FOR OFFICIAL USE ONLY

## PRACTICAL EXAMINATION FIVE

REQUIREMENT: INSTALL AND OPERATE RADIO SET CONTROL GROUP AN/GRA-39 WITH RADIO SET.

The grader will check the following performance measures:

	<u>POINT VALUE</u>	<u>GRADE</u>
A. Student must complete a successful TELEPHONE check between the LOCAL and the REMOTE units: GRADER will operate the remote, student will operate the LOCAL unit.		
1. Six batteries installed properly in the LOCAL unit?	10	
2. LOCAL unit POWER switch ON?	10	
3. Handset properly connected to the LOCAL unit	10	
4. LOCAL unit RADIO cable connected to the radio set?	10	
5. Six batteries installed properly in the REMOTE unit?	10	
6. REMOTE unit ON-OFF VOLUME control to midrange?	10	
7. Handset properly connected to the REMOTE unit?	10	
8. REMOTE unit TEL-RAD-RAD SPKR switch to TEL?	10	
9. WD-1/TT connected properly between the units?	10	
B. Student must be prepared to make a telephone check from the local unit.		
10. Did student place TEL-RAD-RAD SPKR switch to TEL position?	10	

TOTAL POINTS POSSIBLE: 100

TOTAL STUDENT POINTS:

# FOR OFFICIAL USE ONLY

## PRACTICAL EXAMINATION SIX

REQUIREMENT: PERFORM OPERATORS PMCS ON RADIO SET AN/VRC-46 USING DA FORM 2404

The grader will check the following performance measures:

			<u>POINT VALUE</u>	<u>GRADE</u>
		DA Form 2404 ITEM 2 must read "RADIO SET AN/VRC-46"	10	
2.		DA Form 2404 ITEM 5 should contain "Today's Date"	10	
3.		DA Form 2404 ITEM 8a must contain the student's signature.	10	
4.		DA Form 2404 should contain the following items		
	TM ITEM NO.	STATUS	DEFICIENCIES AND SHORTCOMINGS	
	a	b	c	
	6	X	RF cable defective	15
	14	/	"O" ring missing from handset	15
	18	/	MOUNT grounding straps not securely connected	15
	19	X	X-MODE receptacle cover missing	15
5.		TM items must be listed in numerical sequence.	10	
		TOTAL POINTS POSSIBLE:	100	
		TOTAL STUDENT POINTS		

# FOR OFFICIAL USE ONLY

## PRACTICAL EXAMINATION SEVEN

REQUIREMENT: PROPERLY PREPARE AND OPERATE THE TSEC/KY-57 IN THE CIPHER MODE.

The grader will check the following performance measures:

	<u>POINT VALUE</u>	<u>GRADE</u>
AN/VRC-46 prepared for operation?	10	
2. TEK loaded in fill position #1 of ETD?	10	
3. KEK loaded in fill position #6 of ETD?	10	
4. TEK and KEK recorded on correct writing surface of KYK-13.	10	
5. TEK loaded in position #1 of KY-57?	10	
6. KEK loaded in position #6 of KY-57?	10	
7. KY-57 mode switch set in "C" position	10	
8. TEK and KEK recorded on correct writing surface of KY-57	10	
9. Was the student able to enter the net with the NCS in the secure mode of operation?		
A. Position #1?	10	
B. Position #6	10	
	TOTAL POINTS POSSIBLE:	100
	TOTAL STUDENT POINTS:	

# FOR OFFICIAL USE ONLY

## PRACTICAL EXAMINATION EIGHT

REQUIREMENT ONE: PREPARE THE AN/UGC-74 FOR OPERATION IN THE RO STATE

The grader will check the following performance measures:

	<u>POINT VALUE</u>	<u>GRADE</u>
1. Group strap connected?	5	
2. Power cable connected?	5	
3. Clock and Data cable connected?	5	
4. Paper roll installed?	5	
5. Internal switches properly set for operation in the RO state?	5	

REQUIREMENT TWO: VERIFY THE OPERATION STATE BY INITIALIZATION.

6. Was POWER switch placed ON?	15	
--------------------------------	----	--

REQUIREMENT THREE: PERFORM THE SELF-TEST

7. Did student properly perform tests 1 thru 5 of the SELF-TEST?	20	
8. Did the student turn the POWER switch to OFF; then change the STATE switch?	20	

REQUIREMENT FOUR: TRANSMIT YOUR NAME AND SSN IN THE KSR STATE

9. Did the student perform this step properly?	20	
--	----	--

TOTAL POINTS POSSIBLE: 100

TOTAL STUDENT POINTS:

# FOR OFFICIAL USE ONLY

## PRACTICAL EXAMINATION NINE

REQUIREMENT: PREPARE RADIO SET AN/VRC-90 FOR OPERATION.

The grader will check the following performance measures:

	<u>POINT VALUE</u>	<u>GRADE</u>
1. Was amplifier AM-1780 MAIN POWER set to NORM?	10	
2. Was the RT-1439 set to the correct frequency?	20	
3. Was the VOL/WHSP control set to WHSP?	10	
4. Was the DATA switch turned off?	10	
5. Was the function switch set to SQ ON?	10	
6. Was the dim control ON?	10	
7. Was the RF switch set to M?	10	
8. Was the mode switch set to SC?	10	
9. Was the CBI switch set to the ON position?	10	
	TOTAL POINTS POSSIBLE:	100
	TOTAL STUDENT POINTS:	

# FOR OFFICIAL USE ONLY

## PRACTICAL EXAMINATION TEN

REQUIREMENT: PERFORM OPERATORS PMCS ON RADIO SET AN/VRC-90 USING DA FORM 2404.

The grader will check the following performance measures:

			<u>POINT VALUE</u>	<u>GRADE</u>
	DA Form 2404 Item 2 must read "RADIO SET AN/VRC-90".		10	
2.	DA Form 2404 Item 5 should contain "TODAY'S DATE".		10	
3.	DA Form 2404 Item 8a must contain the student's SIGNATURE.		10	
4.	DA Form 2404 should contain the following items:			
	<u>TM ITEM NO</u>	<u>STATUS</u>	<u>DEFICIENCIES AND SHORTCOMINGS</u>	
	<u>a</u>	<u>b</u>	<u>c</u>	
	3	X	Power Lamp does not light	15
	3	X	Display does not light	15
	4	X	Signal display does not light at 0 or 1	15
	5	X	Noise level does not increase	15
5.	TM items must be listed in Numerical Sequence.		10	
			TOTAL POINTS POSSIBLE:	100
			TOTAL STUDENT POINTS:	