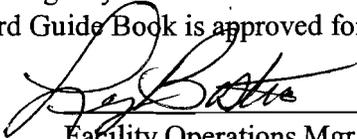


**EMERGENCY MANAGEMENT
EMERGENCY SERVICES TECHNICIAN/
FIRE PROTECTION TECHNICIAN
QUALIFICATION CARD GUIDE BOOK**

**EST-01G, REV. 8
PAGE 1 OF 24**

Note: All signatures must be in reproducible ink. Black ink is preferable:

APPROVAL: This Qualification Card Guide Book has been reviewed and meets the content requirements for qualification as Emergency Services Technician and Fire Protection Technician. This Qualification Card Guide Book is approved for use.



Facility Operations Mgr. / Date

FORMAT: This Qualification Card Guide Book has been reviewed and meets format requirements in effect.



Training Manager / Date

**EMERGENCY MANAGEMENT
EMERGENCY SERVICES TECHNICIAN/
FIRE PROTECTION TECHNICIAN
QUALIFICATION CARD GUIDE BOOK**

**EST-01G, REV. 8
PAGE 2 OF 24**

TABLE OF CONTENTS

	GENERAL INSTRUCTIONS	4
I.	REQUIRED READING	5
II.	REFERENCES	5
	A. Emergency fire pump	6
	B. Large dry chemical system	5
	C. Surface fire truck	5
	D. Underground rescue apparatus	6
	E. Rescue truck	6
	F. Surface & underground ambulance	6
	G. Portable dry chemical extinguishers	6
	H. Inspection & testing of sprinkler systems	6
	I. Fire/Safety Inspection and Testing	6
	J. Seagrave structure truck	7
	K. Brush truck	7
	L. Breathing Air Compressor	7
	M. Fire Alarm Panels	7
III.	CLASSROOM INSTRUCTION	7
IV.	KNOWLEDGE REQUIREMENTS	8
	A. Emergency fire pump	8
	B. Large dry chemical system	9

**EMERGENCY MANAGEMENT
EMERGENCY SERVICES TECHNICIAN/
FIRE PROTECTION TECHNICIAN
QUALIFICATION CARD GUIDE BOOK**

**EST-01G, REV. 8
PAGE 3 OF 24**

C.	Surface fire truck	10
D	Underground rescue apparatus	10
E.	Rescue truck	11
F.	Surface & underground ambulance	11
G.	Portable dry chemical extinguishers	12
H.	Inspection & testing of sprinkler systems	12
I.	Fire/Safety Inspection and Testing	13
J.	Seagrave structure truck	14
K.	Brush truck	15
L.	Breathing Air compressor	15
M.	Fire Alarm Panels	16
V.	PRACTICAL REQUIREMENTS	17
A.	Emergency fire pump	17
B.	Large dry chemical system1	17
C.	Surface fire truck	17
D.	Underground rescue apparatus	18
E.	Rescue truck	18
F.	Surface & underground ambulance	19
G.	Portable dry chemical extinguisher	20
H.	Inspection & testing of sprinkler systems	20
I.	Fire/Safety Inspection and Testing	21

**EMERGENCY MANAGEMENT
EMERGENCY SERVICES TECHNICIAN/
FIRE PROTECTION TECHNICIAN
QUALIFICATION CARD GUIDE BOOK**

**EST-01G, REV. 8
PAGE 4 OF 24**

J.	Seagrave structure truck	21
K.	Brush truck	22
L.	Breathing Air Compressor	23
M.	Fire Alarm Panels	23

GENERAL INSTRUCTIONS

This Qualification Card Guide Book is to be utilized by all personnel qualifying as Emergency Services Technicians (EST) or Fire Protection Technicians (FPT). This Qualification Card Guide Book represents the minimum knowledge and competency requirements for INITIAL AND BIENNIAL QUALIFICATION. The individual may perform duties without direct supervision only for those evolutions and/or operations for which training has been completed.

Training requirements should be conducted and signed by individuals who are qualified or appointed to the level required on the signature block contained in the Qualification Card Record Form.

If certain training requirements become obsolete, the manager may line through the requirement, initial the deletion, and provide an explanation for the deletion. Those items deleted due to the individual's previous training or experience must be accompanied by appropriate and verifiable documentation, with such documentation provided to Technical Training for inclusion in training files. For items deleted due to obsolescence, Technical Training must be notified to revise the Qualification Card to ensure "up-to-date" status of all training requirements is on file.

This Qualification Card Guide Book is divided into the following sections:

- I. Required Reading
- II. References
- III. Classroom Requirements
- IV. Knowledge Requirements
- V. Practical Requirements

Section IV requirements may be completed at any time prior to qualification with the exception of SAF-501 or SAF-502 which is required prior to the U/G rescue apparatus qualification section. Section V requirements must be completed prior to the candidate working on Section VI requirements. Prior to the candidate working on the practical requirements for a specific topic in Section VI, the knowledge requirements for that topic in Section V must be completed.

**EMERGENCY MANAGEMENT
EMERGENCY SERVICES TECHNICIAN/
FIRE PROTECTION TECHNICIAN
QUALIFICATION CARD GUIDE BOOK**

**EST-01G, REV. 8
PAGE 5 OF 24**

The applicable Qualification Card Signature Records should be retained by the Emergency Services Technician or Fire Protection Technician candidate until completed. When completed, all forms must be routed to the Technical Training Department for review, validation, and retention.

The practical requirements identified for Emergency Services Technicians or Fire Protection Technicians should be completed to the indicated level of performance. Levels of performance are as follows:

PERFORM (P) - All aspects of the practical requirement will be performed in accordance with the designated procedure(s).

SIMULATE (S) - The practical requirement should be walked through in the field using the procedure and discussing the desired reaction and indication(s) expected as would be seen if the procedure were being performed.

Where multiple levels of performance are indicated for a practical requirement, the goal of the candidate and evaluator is to complete the highest level possible. The level achieved may be limited by equipment status, facility conditions, or compliance modes. The hierarchy of levels of performance, from highest to lowest, are perform, simulate. The evaluator will circle the level of performance achieved on the practical requirement.

Indicators (>) will be listed in the left margin to identify changes in requirements or revisions to the text.

QUALIFICATION LIMIT: The qualification contained in this Qualification program are valid for two years. Extension of qualification is achieved by completion of items marked with asterisks (*) on a biennial basis.

JOB POSITION REQUIREMENTS:

The EST candidate must be currently qualified in CPR, possess a current EMT-I License and a Class "E" Drivers License.

The FPT candidate must be currently qualified in CPR, possess a current EMT Basic License and a Class "E" Drivers License.

I. REQUIRED READING EMERGENCY SERVICES TECHNICIAN/FIRE PROTECTION TECHNICIAN

1. WP 02-12 WIPP Contingency Plan, Section 4.0, 5.0, 6.0
2. NFPA-600
3. WP 12-9, WIPP Emergency Plan and Administrative Procedures, Sections 2, 5, 7, 8, 9, and 12

**EMERGENCY MANAGEMENT
EMERGENCY SERVICES TECHNICIAN/
FIRE PROTECTION TECHNICIAN
QUALIFICATION CARD GUIDE BOOK**

**EST-01G, REV. 8
PAGE 6 OF 24**

II. REFERENCES

A. Emergency Fire Pump

1. Emergency Fire Pump O & M manual
2. Fire Pump Inspection and Testing PM000026
3. WP 04-FP2202, Diesel Fire Pump
4. WP 04-FP1201, Site Fire Water Supply System Operations

B. Large Dry Chemical System

1. Large Dry Chemical System O & M Manual
2. U/G Fuel Station Dry Chemical Fire Suppression System (Semi-Annual) PM000027

C. Surface Fire truck

1. Emergency Response Equipment Inspection, PM000033
2. Surface Fire Response WP 12-ER4908
3. Surface Fire Truck O & M Manual
4. IFSTA Manual

D. Underground Rescue Apparatus

1. Rescue Apparatus O & M Manual
2. WIPP U/G Fire Response Procedure WP 12-ER4911
3. WIPP U/G Medical Emergency Response WP 12-ER4912
4. S-06G Qual Guide

E. Rescue Truck

1. Ambulance & Surface Rescue Truck Inspection (Weekly) PM000030
2. Rescue Truck O&M Manual
3. Safety Manual WP 12-1

F. Surface & Underground Ambulance

1. Ambulance & Surface Rescue Truck Inspection (Weekly) PM000030
2. Surface Fire Response Procedure WP 12-ER4908

F. Surface & Underground Ambulance (cont.):

3. WIPP U/G Fire Response Procedure WP 12-ER4911

G. Portable Dry Chemical Extinguishers

1. NFPA-10
2. Dry Chemical Extinguishers O & M Manuals

H. Inspection & Testing of Sprinkler Systems

1. Wet Pipe Fire Sprinkler System Testing PM000025
2. NFPA 13, Installation of Sprinkler Systems
3. NFPA 25, Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems

I. Fire/Safety Inspection and Testing

1. NFPA 72, National Fire Alarm Code
2. NFPA 101, Emergency Lighting
3. NFPA 25 Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems
4. Miners First Aid Station Inspection PM000035
5. WP 12-1 WIPP Safety Manual
6. Fire/Safety Inspection and Testing (Monthly/Quarterly/Annual) PM000028
7. Fire Hydrant, PIV, and Isolation Valve Inspection (monthly, quarterly, annual) PM000034

J. Seagraves Structure Truck

1. Seagraves Structure Truck Qual Guide (S-19G)
2. Operation & Maintenance Manual
3. IFSTA Manual
4. NFPA Standard 1002

**EMERGENCY MANAGEMENT
EMERGENCY SERVICES TECHNICIAN/
FIRE PROTECTION TECHNICIAN
QUALIFICATION CARD GUIDE BOOK**

**EST-01G, REV. 8
PAGE 8 OF 24**

K. Brush Truck

1. O & M Manual
2. IFSTA Manual
3. S-20G Qual Guide

L. Breathing Air Compressor

1. O&M Manual
2. WIPP procedure WP 12-ES1124
3. S-21G Qual Guide

M. Fire Alarm Panels

1. NFPA 72, National Fire Alarm Code
2. Operation Manual GHR02 Series Radio Transmitter
3. Fire/Safety Inspection and Testing PM000028

I11. CLASSROOM INSTRUCTION

EMERGENCY SERVICES TECHNICIAN

- A. Current SME/OJT (TRG-293/298)
- B. Incident Command Training (ERT-113 or equivalent)
- C. Current Underground Unescorted Access (SAF-501 or 502)
- D. Current Confined Space Program (SAF-515/515A)
- E. Current Hazardous Waste Worker (HWW-101/102)
- F. Current Respiratory Protection (SAF-630 & 631)
- G. Compressed Gas Cylinder Safety (SAF-619)
- H. Current Hazardous Waste Responder (HWR-101/101A)
- I. Current Radiological Worker II (RAD201)

FIRE PROTECTION TECHNICIAN

- A. Fire Protection System (STC-009)
- B. Current Underground Unescorted Access (SAF-501 or 502)
- C. Current Confined Space Program (SAF-515/515A)
- D. Current Hazardous Waste Worker (HWW-101/102)
- E. Current Respiratory Protection (SAF-630 & 631)
- F. Compressed Gas Cylinder Safety (SAF-619)

**EMERGENCY MANAGEMENT
EMERGENCY SERVICES TECHNICIAN/
FIRE PROTECTION TECHNICIAN
QUALIFICATION CARD GUIDE BOOK**

**EST-01G, REV. 8
PAGE 9 OF 24**

- G. Current Hazardous Waste Responder (HWR-101/101A)
- H. Current Radiological Worker II (RAD201)

IV. KNOWLEDGE REQUIREMENTS

To complete the requirements in the Signature Record Form, the SME will qualify, by oral examination, that the candidate has adequate knowledge of the objectives below.

A. Emergency Fire Pump

1. Identify valves used to isolate a break or malfunction located just before the pipe goes below the pump-house floor. (A. 1)
2. Identify valves used to isolate a break or malfunction in the FW-456-V-6 valve. (A. 1)
3. Locate and identify the following: (A.1, A.2)
 - a. Diesel pump coolant line & valves
 - b. Diesel pump speed control manual lever
 - c. Diesel pump manual crank levers
 - d. Diesel pump fuel tank, piping & valves
 - e. Diesel pump tachometer, water temperature, oil pressure and ammeter
 - f. Test header piping and valves
 - g. Test meter gage, piping and valves
 - h. Discharge bypass piping and valves
 - i. Alarm control panel
 - j. Domestic water tank level indicator
4. List Personal Protective Equipment required. (A.1)
5. State the Jockey and Electric Fire Pump breaker and switch alignment. (A.2)
6. State the normal valve alignment for the Jockey, Electric, and Diesel Fire Pumps. (A.2)
7. State what is the required actions to a Diesel Fire Pump high temperature. (A.2)

A. Emergency Fire Pump (cont.)

8. Describe what to check when the Electric Fire Pump is operating. (A.2)
9. Describe what to check when the Diesel Fire Pump is operating. (A.2)
10. Describe the Diesel, Electric, and Jockey pump functions, capacities, and control setpoints. (A.3)
11. State the minimum fuel requirements for the diesel fire pump. (A.3)
12. State the five diesel fire pump alarms that will give a common trouble light. (A.3)
13. Discuss normal and emergency startup and shutdown of the electric and diesel fire pumps. (A.3)
14. Discuss the methods for reprogramming the Diesel Fire Pump Control Panel. (A.3)

B. Large Dry Chemical System

1. State the purpose of the 1000lb. dry chemical system. (B. 1)
2. State the type of dry chemical used in the 1000lb. dry chemical system. (B. 1)
3. State the operating pressure of the tank when charged. (B. 1)
4. State the discharge pressure of the chemical. (B. 1)
5. State the gauge area where recharge of the cylinders is necessary. (B. 1)
6. State the protective equipment necessary when servicing the system. (B. 1)
7. State the actions taken prior to opening the fill caps. (B. 1)
8. State the actions taken prior to removing pressurized cylinders. (B. 1)

B. Large Dry Chemical System (cont.)

9. State the actions taken prior to entering an area that has been enriched with nitrogen from a discharged cylinder. (B.1)

C. Surface Firetruck

1. State the starting procedure of the Surface Firetruck. (C. 1 ,C.3)
2. State personnel responsible for testing all emergency-related equipment. (C. 1,C.2)
3. Describe personal protective equipment necessary to operate the firetruck. (C.3)

D. Underground Rescue Apparatus

1. Explain the purpose of the Underground Rescue Apparatus. (D.2,D3)
2. Explain how this unit is powered. (D.1)
3. Describe the function and intended purpose of the 125 lb fixed dry chemical extinguisher. (D.4)
4. Describe the function and intended purpose of the foam system extinguisher. (D.4)
5. Describe the uses and location of: (D.4)
 - a. Air packs and "PASS" devices
 - b. Rescue equipment
6. Explain vehicle start up operations. (D. 1)
7. Explain how to park this apparatus. (D.4)
8. State the underground speed limit of this apparatus. (D.4)
9. Explain who to contact prior to testing or maintenance. (D.4)
10. Explain who to contact if this apparatus becomes inoperable. (D.4)

E. Rescue Truck

1. Describe the starting procedure for the rescue truck. (E.2)
2. Describe the starting procedure for the Jaws engine. (E.2)
3. Describe the starting procedure for the generator. (E.2)
4. Describe the proper protective clothing to wear when using rescue equipment. (E.2)
5. Identify personnel responsible for equipment maintenance. (E.2)

F. Surface & Underground Ambulance

1. State the starting procedure for the surface ambulance. (F.2)
2. State the starting procedure for the U/G ambulance. (F3)
3. Identify personnel who are responsible for testing all emergency-related equipment. (F.1)
4. State the safe operating speeds and their justifications for the surface ambulance. (F.2)
5. State the safe operating speeds and their justifications for the U/G ambulance. (F.3)
6. Describe the most desirable route to the Carlsbad Hospital from WIPP. (F.2)
7. Identify personnel responsible for equipment maintenance. (F. 1)

G. Portable Dry Chemical Extinguishers

1. State the steps to remove cylinder tops. (G.2)

H. Inspection & Testing of Sprinkler Systems

1. State components of a sprinkler system from inlet to discharge. (H.1, H.2)
2. State the operational requirements for the following components: (H.1, H.3)
 - a. piping
 - b. valve
 - c. head
 - d. gages
3. Describe the components of a sprinkler riser. (H 1, H.2)
4. Describe interaction with sprinkler systems and other related equipment. (H.1, H.2)
 - a. Fire Pump
 - b. Local Panel
 - c. Local Alarms
 - d. Central Monitoring
5. State the inspection requirement for sprinkler systems: (H.1, H.2, H.3)
 - a. Monthly
 - b. Quarterly
 - c. Annual
6. State the pressure requirements for charged sprinkler systems. (H.1, H.2)
7. Describe actions to be taken if any component is not found in normal configuration. (H.1, H.2)
8. State the proper emergency action to be taken concerning the sprinkler systems. (H.1,H.2)
9. State which components of the sprinkler systems require a security device. (H 1, H.2,H.3)
10. State the safety issues involved with sprinkler testing. (H.1, H.2)
11. State the maintenance/testing requirements for OS and Y valves. (H 1, H.2, H.3)

H. Inspection & Testing of Sprinkler Systems (cont.)

12. State the frequency of calibration of gages for sprinkler systems. (H 1, H.2)

I. Fire/Safety Inspection and Testing

1. State the inspection frequency of detectors. (I.1)
2. State the types of detectors utilized in the fire protection systems at WIPP. (1.6)
3. State the different types of tests used on the detectors. (I.6)
4. State the acceptance criteria for inspection of detectors. (I.1)
5. State the interfaces for detector systems. (I.1)
6. State the notification requirements if detectors fail the inspections. (I.1)
7. State the inspection frequency of pullboxes. (I.1)
8. State the acceptance criteria for inspection of pullboxes. (I.1)
9. State the procedures for notifications if pullboxes fail the inspection. (I.1)
10. State the location of site emergency lighting. (1.6)
11. State the inspection frequency of emergency lighting. (1.2)
12. State the different types of inspections to be performed on emergency lighting. (1.2)
13. State the safety requirements observed when testing detectors. (I.1, 1.5)
14. State the safety requirements observed when testing pullboxes. (I.1)
15. State the testing requirements for pullboxes. (I.1)
16. State system response when opening alarm test valve. (H.1)

I. Fire/Safety Inspection and Testing (cont.)

17. State the clearance distance of objects from fire protection/detection components. (I.6)
18. Describe the inspection criteria for hose reels. (1.6)
19. State how to determine the condition of hose reels. (1.6)
20. State the location of fire hydrants. (I.7)
21. Describe the inspection criteria for fire hydrants. (1.7)
22. State the location of Post Indicator Valves (PIV) (I.7)
23. Describe how to determine the position of the PIV. (I.7)
24. State the location of the isolation valves. (I.7)
25. Describe the inspection criteria for isolation valves. (I.7)

J. Seagrave Structure Truck

1. State the starting procedure of the Seagrave Truck. (J.2)
2. State the purpose of firefighting tools: firehose, appliances, ladders and SCBA. (J. 1)
3. Describe personnel responsible for testing all emergency-related equipment. (J. 1)
4. Describe personal protective equipment necessary to operate the firetruck. (J.3)
5. Describe personnel responsible for equipment maintenance. (J. 1)

K. Brush Fire Truck

1. State the starting procedure of the brush fire truck. (K. 1)
2. State starting procedure for the pump engine and the pump. (K. 1&3)

**EMERGENCY MANAGEMENT
EMERGENCY SERVICES TECHNICIAN/
FIRE PROTECTION TECHNICIAN
QUALIFICATION CARD GUIDE BOOK**

**EST-01G, REV. 8
PAGE 16 OF 24**

K. Brush Fire Truck (cont.)

3. State the purpose of firefighting tools: fire hose, portable fire hand pump, brush firefighting tools. (K.2&3)
4. State personnel responsible for testing all emergency-related equipment. (K.3)
5. Describe personal protective equipment necessary to operate the brush truck. (K.3)
6. State personnel responsible for equipment maintenance. (K.3)

L. Breathing Air compressor

1. Identify the type of gas produced with this compressor. (L. 1)
2. Identify the basic features of the compressor system. (L. 1)
3. Identify the warning alarms and/or indicators. (L.1)
4. State what actions would be taken if an indicator light was illuminated. (L.1 &2)
5. State the flow of air through the compressor. (L. 1)
6. Identify the key components of the fill station. (L. 1)
7. Describe the flow of air to the fill station. (L. 1)
8. Identify the key components of the cascade system. (L. 1)
9. State the flow of air to the cascade system. (L. 1)
10. State the proper personal protective equipment required for operation of this compressor. (L.3)
11. Describe the hazards associated with high pressure compressed gas filling operations. (L.3)
12. Describe the immediate actions to take if the system has an overpressure or threatens overpressure. (L.3)

**EMERGENCY MANAGEMENT
EMERGENCY SERVICES TECHNICIAN/
FIRE PROTECTION TECHNICIAN
QUALIFICATION CARD GUIDE BOOK**

**EST-01G, REV. 8
PAGE 17 OF 24**

L. Breathing Air compressor (cont.)

13. Identify personnel responsibility involving the testing and maintenance of the compressor system. (L.3)
14. State the required filter change interval. (L. 1)
15. Describe the items which must be checked prior to operation of this compressor system. (L1& L2)

M. Fire Alarm Panels

1. State the location of fire alarm panels. (M.3)
2. Describe the normal indications on the fire alarm panels. (M.1,M.3)
3. Identify the trouble indications on the fire alarm panels. (M.1,M.3)
4. Describe how to reset the fire alarm panels. (M.3)
5. State how to perform a lamp test. (M.3)
6. State how to perform an alarm test. (M.3)
7. Describe the function of the tamper alarm. (M.3)
8. Describe the function of the alarm check on the Radio-frequency Fire Alarm Receiver (RFAR). (M.2)

V. PRACTICAL REOUREMENTS

Note: Prior to performing the following practicals, the candidate MUST have completed the associated knowledge requirements in the above section.

A. Emergency Fire Pump

- | | | |
|-----|---|--|
| A-8 | * | 1. Perform an manual startup and shutdown of the electric fire pump. (A.1, A.2, A3,A4) |
| A-1 | * | 2. Perform Weekly Pump Test. (A.1, A.2) |

**EMERGENCY MANAGEMENT
EMERGENCY SERVICES TECHNICIAN/
FIRE PROTECTION TECHNICIAN
QUALIFICATION CARD GUIDE BOOK**

**EST-01G, REV. 8
PAGE 18 OF 24**

A. Emergency Fire Pump (cont.)

- A-6 3. Perform Emergency Startup of Diesel Fire Pump. (A.1, A.2, A3)
- A-7 4. Perform Emergency Shutdown of Diesel Fire Pump. (A.1, A.2, A3)

B. Large Dry Chemical System

- * 1. Perform an operational test of the Large Dry Chemical System. (B 1, B.2)

C. Surface Fire Truck

1. Perform the weekly inspection of the surface firetruck. (C. 1, C.3)
2. Drive the firetruck on a paved road in 2 wheel drive. (C.3)
3. Drive the firetruck on a paved road in 4 wheel drive. (C.3)
- * 4. Operate the fire pump and discharge from the water reel line. (C.3)
5. Attach the supply line to a WIPP Site hydrant. (C.3)
6. Operate all emergency warning equipment lights and sirens. (C.3)
7. Operate the truck mounted scene lights. (C.3)
8. Perform a visual check of water level in the tank. (C.3)
9. Discharge water from 1 3/4 inch handline. (C.3)
10. Simulate discharging foam from the foam eductor. (C.3)
11. Drive the fire truck in reverse and back the truck into the Emergency Vehicle Bay. (C .4)

D. Underground Rescue Apparatus

1. Perform pre-operational checks on this apparatus. (D. 1)
2. Demonstrate how to start, drive, and park this apparatus. (D.4)
3. Demonstrate how to park the apparatus at a scene. (D.4)

D. Underground Rescue Apparatus (cont.)

4. Perform a backing operation covering a given distance. (D.4)

E. Rescue Truck

1. Perform weekly inspections of Rescue Truck and equipment according to the checklist. (E.1)
2. Demonstrate the proper use of the VHF Radio. (E.2)
3. Drive the rescue truck for 5 miles under normal conditions. (E.2)
- * 4. Operate the jaws of life by hooking up the hydraulics, starting motor, and operating optional attachment tool. (E.2)
- * 5. Operate the air bags by hooking up to the bottle and inflating the bag. (E.2)
- * 6. Start the generator and hook up the electrical lights. (E.2)
- * 7. Demonstrate the operation of the winch. (E.2)
- * 8. Simulate operation of the 125 lb dry chemical. (E.2)
9. Demonstrate the operation of the smoke ejector fan. (E.2)
10. Demonstrate the operation of the handlights. (E.2)
11. Demonstrate the operation of the door bar. (E.2)
12. Drive the vehicle in reverse and back into the Emergency Vehicle Bay. (E.1)
13. Demonstrate proper use of all emergency warning equipment; lights, siren, & PA. (E.2)

F. Surface & Underground Ambulance

1. Perform weekly inspection of U/G ambulance. (F. 1)
2. Perform weekly inspection of surface ambulance. (F. 1)

F. Surface & Underground Ambulance (cont.)

3. Operate the surface ambulance by driving 5 miles under normal conditions without violating New Mexico State Law. (F.2, F.3)
4. Operate the U/G ambulance by driving and observing all rules for driving in the underground. (F.4, F.5)
- * 5. Demonstrate correct operation of the gurney. (F.1)
- * 6. Locate the backboards. (F. 1)
- * 7. Locate a traction splint. (F.1)
- * 8. Locate an air splint. (F.1)
- * 9. Locate a rigid splint. (F.1)
- * 10. Locate a pneumatic anti-shock garment. (F. 1)
- * 11. Locate the scoop stretcher. (F. 1)
- * 12. Locate the fixed oxygen equipment. (F. 1)
- * 13. Locate the cervical collars. (F.1)
14. Perform "backing operation" of an ambulance and back ambulance into emergency vehicle bay. (F.4, F.5)
15. Demonstrate proper operation of all emergency warning equipment lights, siren, & PA. (F.1)

G. Portable Dry Chemical Extinguishers

1. Inspect gauge or pressure stem. (G.2)
2. Inspect shell for damage. (G.2)
3. Inspect nozzle. (G.2)
4. Perform checks using scanner. (G.1)

**EMERGENCY MANAGEMENT
EMERGENCY SERVICES TECHNICIAN/
FIRE PROTECTION TECHNICIAN
QUALIFICATION CARD GUIDE BOOK**

**EST-01G, REV. 8
PAGE 21 OF 24**

H. Inspection & Testing of Sprinkler Systems

- A-9 1. Complete verification/documentation of testing performance of the sprinkler systems. (H.1, H.2)
- A-10 2. Perform a monthly inspection of sprinkler related systems. (H.1, H.2)
- A-11 3. Perform the quarterly sprinkler systems test. (H.1, H.2)
- A-12 4. Perform an Annual Alarm Test. (H.1, H.2)

I. Fire/Safety Inspection and Testing

- A-13 1. Perform inspection and functional test of one area and one duct smoke and heat detector and fill out proper forms. (I.1, 1.3, 1.4)
- A-14 2. Perform inspection and functional test of pull boxes and fill out proper forms. (I.1)
- A-15 3. Perform inspection of emergency lighting and fill out proper forms. (I.2)
- 4. Perform quarterly miner aid station inspection. (1.4)
- A-17 5. Operate a Post Indicator Valve. (1.7)
- A-18 6. Operate an Isolation Valve. (1.7)
- A-19 7. Flow a Hydrant. (1.7)

J. Seagrave Structure Truck

- 1. Drive the firetruck on a paved road from the vehicle bay. (J.2)
- *2. Demonstrate operation of the fire pump (J.1, J.2)
- 3. Demonstrate operation of all emergency warning equipment lights and sirens. (J. 1)
- 4. Demonstrate operation of truck mounted scene lights. (J.2)
- 5. Demonstrate operation of VHF radio by calling the CMR on WIPP channel 2. (J. 1)

J. Seagrave Structure Truck (cont.)

6. Perform visual check of water level in tank. (J. 1)
7. Discharge water from 1 3/4" handline. (J.3)
8. Demonstrate operation of deckgun and discharge water for one minute. (J.3)
9. Simulate use of foam system. (J.2)
10. Drive firetruck in reverse and back truck into Emergency Vehicle Bay. (J.1,2)
11. Demonstrate operation of the truck mounted generator. (J.2)
- * 12. Operate the high side ladder rack. (J. 1)
13. Demonstrate rewind of electric cord reel. (J. 1)
14. Demonstrate operation of truck air brake system including stating proper air pressure. (J.2)
15. Check foam level in foam tank. (J.1)
16. Drive truck into a U-turn within a space that requires backing. (J.4)

K. Brush Fire Truck

1. Drive Fire Truck on paved road in two wheel drive. (K.1&3)
- * 2. Demonstrate operation of the fire pump. (K.3)
3. Discharge water from booster hand line. (K.3)
4. Discharge water from 1 3/4 inch hand line. (K.3)
5. Demonstrate use of bumper spray sweeps and discharge water. (K.3)
6. Demonstrate attachment of a supply line to a WIPP site hydrant. (K.3)
7. Perform visual check of water level in tank. (K.3)

**EMERGENCY MANAGEMENT
EMERGENCY SERVICES TECHNICIAN/
FIRE PROTECTION TECHNICIAN
QUALIFICATION CARD GUIDE BOOK**

**EST-01G, REV. 8
PAGE 23 OF 24**

K. Brush Fire Truck (cont.)

8. Demonstrate operation of all emergency warning equipment lights and siren. (K.3)
9. Demonstrate operation of truck mounted scene lights. (K.3)
10. Demonstrate operation of VHF radio by calling CMR on the WIPP channel 2. (K.3)
- * 11. Demonstrate the proper operation of the front mounted winch. (K.3)
12. Demonstrate backing application and then properly back into emergency vehicle bay. (K.3)

L. Breathing Air Compressor

1. Perform a pre-operational check of the compressor. (L.2)
- * 2. Start the compressor. (L.2)
3. Identify the correct operating pressure of the compressor. (L.2)
- * 4. Perform a pre-operational check of the filling station. (L.2)
- * 5. Properly place cylinders in the filling station. (L.2)
- * 6. Demonstrate proper valve configuration for filling operations. (L.2)
7. Verify outlet pressures continually during operation. (L.2)
8. Demonstrate filling the cascade system from the air compressor. (L.2)
9. Demonstrate refilling of a cylinder from the cascade system. (L.2)

M. Fire Alarm Panels

- A-20 * 1. Perform an alarm check on the RFAR. (M.2)
- A-2 1 * 2. Perform a monthly inspection on Fire Alarm Panel. (M.1)

**EMERGENCY MANAGEMENT
EMERGENCY SERVICES TECHNICIAN/
FIRE PROTECTION TECHNICIAN
QUALIFICATION CARD GUIDE BOOK**

**EST-01G, REV. 8
PAGE 24 OF 24**

M. Fire Alarm Panels (cont.)

A-22 3. Perform an alarm test of Fire Alarm Panel and reset. (M.1)

**FACILITY OPERATIONS
EMERGENCY SERVICES TECHNICIAN
QUALIFICATION CARD SIGNATURE RECORD**

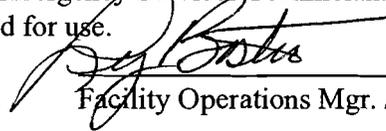
**EST-01, REV. 9
PAGE 1 OF 12**

CANDIDATE: _____ **COMPANY/DEPT:** _____

BADGE # _____ **DATE STARTED** _____ **INITIAL:** _____ **REQUAL:** _____

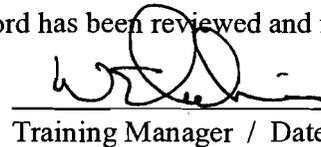
NOTE: All signatures must be in reproducible ink. Black ink is preferred.

APPROVAL: This Qualification Card Signature Record has been reviewed and meets the content requirements for qualification as Emergency Services Technician. This Qualification Card Signature Record is approved for use.

 7/27/06

Facility Operations Mgr. / Date

FORMAT: This Qualification Card Signature Record has been reviewed and meets format requirements in effect.

 7/31/06

Training Manager / Date

GENERAL INSTRUCTIONS:

This Qualification Card Signature Record stipulates all training requirements which must be satisfactorily completed to become a qualified Emergency Services Technician. All job position formal classroom courses and requirements are included to provide qualifying individuals and management personnel a method of verifying qualification status at any time following assignment to the job position.

The requirements of this Qualification Card Signature Record are to be completed by each Emergency Services Technician to be considered fully competent to accomplish all aspects of the associated position. The individual may perform duties without direct supervision only for those evolutions and/or operations for which training has been completed.

If certain training requirements become obsolete, the manager may line through the requirement, initial the deletion, and provide an explanation for the deletion. For items deleted due to obsolescence, Technical Training must be notified to revise the Qualification Card Guide Book and the Qualification Card Signature Record to ensure "up-to-date" status of all training requirements is on file.

- > Indicates a revision to the text of the qualification Card. This indicator will be shown in the left margin of the card, adjacent to the change.

QUALIFICATION REQUIREMENTS:

Qualification and Re-qualification references and requirements are identified in the Qualification Card Guide Book (EST-01G).

**FACILITY OPERATIONS
EMERGENCY SERVICES TECHNICIAN
QUALIFICATION CARD SIGNATURE RECORD**

**EST-01, REV. 9
PAGE 2 OF 12**

* Denotes performance requirements necessary to re-qualify on this card.

JOB POSITION REQUIREMENTS:

The Candidate must be currently qualified in CPR, possess a current EMT-I License and a Class "E" drivers License.

Facility Operations Mgr. / Date

SME SIGNATURE RECORD:

NOTE: All SMEs/OJTEs involved in the Qualification must print and sign their name below.

Printed name

Signature

Printed name

Signature

Printed name

Signature

I. REQUIRED READING

1. WP 02-12, WIPP Contingency Plan, Sections 4.0, 5.0 and 6.0
2. NFPA-600
3. WP 12-9, WIPP Emergency Plan and Administrative Procedures, Sections 2.0, 5.0, 7.0, 8.0, 9.0 and 12.0

I have read and understand the required reading.

Trainee Signature / Date

II. CLASSROOM INSTRUCTION

These classroom training courses are required prior to completion of this qualification card.

- Training Coordinator / Date
- A. Current SME/OJT training (TRG-293 or 298) _____
- B. Incident Command Training (ERT-113 or equivalent) _____
- C. Current U/G Unescorted Access (SAF-501 or 502) _____

**FACILITY OPERATIONS
EMERGENCY SERVICES TECHNICIAN
QUALIFICATION CARD SIGNATURE RECORD**

**EST-01, REV. 9
PAGE 3 OF 12**

II. CLASSROOM INSTRUCTION(cont.)

Training Coordinator / Date

- D. Current Confined Space Program (SAF-515/515A) _____
- E. Current Hazardous Waste Worker (HWW-101/102) _____
- F. Current Respiratory Protection(SAF-630 &631) _____
- G. Compressed Gas Cylinder Safety (SAF-619) _____
- H. Current Hazardous Waste Responder (HWR-101/101A) _____
- I. Current Radiological Worker II (RAD201) _____

III. KNOWLEDGE REQUIREMENTS

To complete the signature requirements below, the SME will certify, by oral examination, that the candidate has adequate knowledge of the objectives found in section IV of the Emergency Services Technician Qualification Card Guide Book.

SME Signature / Date

- A. Emergency Fire Pump _____
- B. Large Dry Chemical System _____
- C. Surface Fire Truck _____
- D. Underground Rescue Apparatus _____
- E. Rescue Truck _____
- F. Surface & Underground Ambulance _____
- G. Portable Dry Chemical Extinguishers _____
- H. Inspection & Testing of Sprinkler Systems _____
- I. Fire/Safety Inspection and Testing _____
- J. Seagrave Structure Truck _____
- K. Brush Fire Truck _____

**FACILITY OPERATIONS
EMERGENCY SERVICES TECHNICIAN
QUALIFICATION CARD SIGNATURE RECORD**

**EST-01, REV. 9
PAGE 4 OF 12**

III. KNOWLEDGE REQUIREMENTS (cont.)

SME Signature / Date

L. Breathing Air Compressor

M. Fire Alarm Panels

IV. PRACTICAL REQUIREMENTS

NOTE: Prior to performing the following practicals, the candidate **MUST** have completed the associated knowledge requirements in the above section.

A. Emergency Fire Pump

SME Signature / Date

A-8 *1 Perform a manual start up and shutdown of the electric fire pump.
(A.1, A.2, A.3, A.4)

(P/S)

A-1 *2. Perform Weekly Pump Test.
(A.1, A.2)

(P/S)

A-6 3. Perform Emergency Start up of Diesel Fire Pump.
(A.1, A.2, A.3)

(P/S)

A-7 4. Perform Emergency Shut down of Diesel Fire Pump.
(A 1, A 2, A.3)

(P/S)

B. Large dry chemical system

SME Signature / Date

*1. Perform an operational test of the Large Dry Chemical System. (B.1, B.2)

(P/S)

C. Surface fire truck

SME Signature / Date

1. Perform the weekly inspection of the surface fire truck.
(C.1, C.3)

(P/S)

2. Drive the fire truck on a paved road in 2 wheel drive.
(C.3)

(P/S)

3. Drive the fire truck on an unpaved road in 4 wheel drive.
(C.3)

(P/S)

**FACILITY OPERATIONS
EMERGENCY SERVICES TECHNICIAN
QUALIFICATION CARD SIGNATURE RECORD**

**EST-01, REV. 9
PAGE 5 OF 12**

C. Surface fire truck (cont.)		SME Signature / Date
*5.	Operate the fire pump and discharge from the water Reel line. (C.3) (P/S)	_____
6.	Attach the supply line to a WIPP Site hydrant. (C.3) (P/S)	_____
7.	Operate all emergency warning equipment lights and sirens.(C.3) P/S	_____
8.	Operate the truck mounted scene lights. (C.3) P/S	_____
9.	Perform a visual check of water level in the tank. (C.3) P/S	_____
10.	Discharge water from the 1 3/4 inch handline. (C.3) P/S	_____
11.	Simulate Discharging foam from the foam eductor (C.3)	_____
12.	Drive the fire truck in reverse and back truck into the emergency vehicle bay. (C.4) P/S	_____
D. Underground rescue apparatus		SME Signature / Date
1.	Perform pre-operational checks on this apparatus. (D.1) P/S	_____
2.	Demonstrate how to start, drive, and park this apparatus. (D.4) P/S	_____
3.	Demonstrate how to park the apparatus at a scene. (D.4) P/S	_____
4.	Perform a backing operation covering a given distance. (D.4) P/S	_____
E. Rescue truck		SME Signature / Date
1.	Perform weekly inspections of Rescue Truck and equipment according to the checklist. (E.1) P/S	_____

**FACILITY OPERATIONS
EMERGENCY SERVICES TECHNICIAN
QUALIFICATION CARD SIGNATURE RECORD**

**EST-01, REV. 9
PAGE 6 OF 12**

E.	Rescue truck(cont.)	SME Signature / Date
2.	Demonstrate the proper use of the VHF Radio.(E.2) P/S	_____
3.	Drive the rescue truck for 5 miles under normal conditions. (E.2) P/S	_____
*4.	Operate the jaws of life by hooking up the hydraulics starting motor, and operating optional attachment tool. (E.2) P/S	_____
*5.	Operate the air bags by hooking up to the bottle and inflating the bag. (E.2) P/S	_____
*6.	Start the generator and hook up the electrical lights. (E.2) P/S	_____
*7.	Demonstrate the operation of the winch.(E.2) P/S	_____
*8.	Simulate the operation of the 125 lb dry chemical. (E.2) P/S	_____
9.	Demonstrate the operation of the smoke ejector fan. (E.2) P/S	_____
10.	Demonstrate the operation of the hand lights. (E.2) P/S	_____
11.	Demonstrate the operation of the door bar. (E.2) P/S	_____
12.	Drive the vehicle in reverse and then back into the emergency vehicle bay. (E.1) P/S	_____
13.	Demonstrate proper use of all emergency warning equipment; lights, siren, & PA. (E.2) P/S	_____
F.	Surface & Underground Ambulance	SME Signature / Date
1.	Perform weekly inspection of U/G ambulance. (F.1) P/S	_____

**FACILITY OPERATIONS
EMERGENCY SERVICES TECHNICIAN
QUALIFICATION CARD SIGNATURE RECORD**

**EST-01, REV. 9
PAGE 7 OF 12**

F.	Surface & Underground Ambulance(cont.)	SME Signature / Date
2.	Perform weekly inspection of surface ambulance. (F.1) P/S	_____
3.	Operate the surface ambulance by driving 5 miles under normal conditions without violating New Mexico State Law. (F.2, F.3) P/S	_____
4.	Operate the U/G ambulance by driving and observing all rules for driving in the underground. (F.2, F.3) P/S	_____
*5.	Demonstrate correct operation of the gurney. (F.2) P/S	_____
*6.	Locate the backboards. (F.1) P/S	_____
*7.	Locate a traction splint. (F.1) P/S	_____
*8.	Locate an air splint. (F.1) P/S	_____
*9.	Locate a rigid splint. (F.1) P/S	_____
*10.	Locate a pneumatic anti-shock garment. (F.1) P/S	_____
*11.	Locate the scoop stretcher. (F.1) P/S	_____
*12.	Locate the fixed oxygen equipment. (F.1) P/S	_____
*13.	Locate the cervical collars. (F.1) P/S	_____
14.	Perform "backing operation" of an ambulance and then back ambulance into emergency vehicle bay. (F.2, F.3) P/S	_____
15.	Demonstrate proper operation of all emergency warning equipment lights, siren, & PA. (F.1) P/S	_____
G.	Portable dry chemical extinguishers	SME Signature / Date
1.	Inspect gauge or pressure stem. (G.2) P/S	_____
2.	Inspect shell for damage. (G.2) P/S	_____

**FACILITY OPERATIONS
EMERGENCY SERVICES TECHNICIAN
QUALIFICATION CARD SIGNATURE RECORD**

**EST-01, REV. 9
PAGE 8 OF 12**

G. Portable dry chemical extinguishers (cont.)			SME Signature / Date
	3.	Inspect nozzle. (G.2)	P/S _____
	4.	Perform checks using scanner. (G.1)	P/S _____
H. Inspection & testing of sprinkler systems			SME Signature / Date
A-9	1.	Complete verification/documentation of testing performance of the sprinkler systems. (H.1, H.2)	P/S _____
A-10	2.	Perform a monthly inspection of sprinkler related systems. (H.1, H.2)	P/S _____
A-11	3.	Perform a quarterly sprinkler systems test. (H.1, H.2)	P/S _____
A-12	4.	Perform an annual alarm test. (H.1, H.2)	P/S _____
I. Fire/Safety Inspection and Testing			SME Signature / Date
A-13	1.	Perform inspection and functional test of one area and one duct smoke and heat detector and fill out proper forms. (I.1, I.3, I.4)	P/S _____
A-14	2.	Perform inspection and functional test of pull boxes and fill out proper forms. (I.1)	P/S _____
A-15	3.	Perform inspection of emergency lighting and fill out proper forms. (I.2)	P/S _____
	4.	Perform quarterly miner aid station inspection. (I.4)	P/S _____
A-17	5.	Operate a Post Indicator Valve. (I.7)	P/S _____
A-18	6.	Operate an Isolation Valve. (I.7)	P/S _____
A-19	7.	Flow a Hydrant. (I.7)	P/S _____
J. Seagrave structure truck			SME Signature / Date
	1.	Drive the fire truck on a paved road from the vehicle bay. (J.2)	P/S _____

**FACILITY OPERATIONS
EMERGENCY SERVICES TECHNICIAN
QUALIFICATION CARD SIGNATURE RECORD**

**EST-01, REV. 9
PAGE 9 OF 12**

J.	Seagrave structure truck (cont.)		SME Signature / Date
*2.	Demonstrate operation of the fire pump. (J.1, J.2)	P/S	_____
3.	Demonstrate operation of all emergency warning equipment lights and sirens. (J.1)	P/S	_____
4.	Demonstrate operation of truck mounted scene lights. (J.2)	P/S	_____
5.	Demonstrate operation of VHF radio by calling the CMR on WIPP channel 2. (J.1)	P/S	_____
6.	Perform visual check of water level in tank. (J.1)	P/S	_____
7.	Discharge water from 1 3/4" hand line.(J.3)	P/S	_____
8.	Demonstrate operation of deck gun and discharge water for one minute. (J.3)	P/S	_____
9.	Simulate use of foam system. (J.2)		_____
10.	Drive Fire truck in reverse and then back into emergency vehicle Bay. (J.1, J.2)	P/S	_____
11.	Demonstrate operation of the truck mounted generator. (J.2)	P/S	_____
*12.	Operate the high side ladder rack. (J.1)	P/S	_____
13.	Demonstrate rewind of electric cord reel. (J.1)	P/S	_____
14.	Demonstrate operation of truck air brake system including stating proper air pressure.(J.2)	P/S	_____
15.	Check foam level in foam tank. (J.1)	P/S	_____
16.	Drive truck into a U-turn within a space that requires backing. (J.4)	P/S	_____

**FACILITY OPERATIONS
EMERGENCY SERVICES TECHNICIAN
QUALIFICATION CARD SIGNATURE RECORD**

**EST-01, REV. 9
PAGE 10 OF 12**

			SME Signature / Date
K.	Brush Fire Truck		
1.	Drive fire truck on paved road in two wheel drive. (K.1, K.3)	P/S	_____
*2.	Demonstrate operation of the fire pump. (K.3)	P/S	_____
3.	Discharge water from booster hand line. (K.3)	P/S	_____
4.	Discharge water from 1 3/4 inch hand line. (K.3)	P/S	_____
5.	Demonstrate use of bumper spray sweeps and discharge water. (K.3)	P/S	_____
6.	Demonstrate attachment of a supply line to a WIPP site hydrant. (K.3)	P/S	_____
7.	Perform Visual check of water level in tank. (K.3)	P/S	_____
8.	Demonstrate operation of all emergency warning equipment lights and siren. (K.3)	P/S	_____
9.	Demonstrate operation of truck mounted scene lights. (K.3)	P/S	_____
10.	Demonstrate operation of VHF radio by calling CMR on WIPP channel 2 . (K.3)	P/S	_____
*11.	Demonstrate the proper operation of the front mounted winch. (K.3)	P/S	_____
12.	Demonstrate proper backing application and then properly back into emergency vehicle bay. (K.3)	P/S	_____
L.	Breathing Air Compressor		SME Signature / Date
1.	Perform a pre-operational check of the compressor. (L.2)	P/S	_____

**FACILITY OPERATIONS
EMERGENCY SERVICES TECHNICIAN
QUALIFICATION CARD SIGNATURE RECORD**

**EST-01, REV. 9
PAGE 11 OF 12**

L. Breathing Air Compressor (cont.)			SME Signature / Date
	*2.	Start the compressor. (L.2)	P/S _____
	3.	Identify the correct operating pressure of the Compressor. (L.2)	P/S _____
	*4.	Perform a pre-operational check of the filling station. (L.2)	P/S _____
	*5.	Properly place cylinders in the filling station. (L.2)	P/S _____
	*6.	Demonstrate proper valve configuration for filling operations. (L.2)	P/S _____
	7.	Verify outlet pressures continually during operation. (L.2)	P/S _____
	8.	Demonstrate filling the cascade system from the air compressor. (L.2)	P/S _____
	9.	Demonstrate refilling of a cylinder in the cascade system. (L.2)	P/S _____
M. Fire Alarm Panels			SME Signature / Date
A-20	*1.	Perform an alarm check on the RFAR. (M.2)	P/S _____
A-21	*2.	Perform a monthly inspection on Fire Alarm Panel. (M.1)	P/S _____
A-22	3.	Perform an alarm test of Fire Alarm Panel. And reset. (M.1)	P/S _____

**FACILITY OPERATIONS
EMERGENCY SERVICES TECHNICIAN
QUALIFICATION CARD SIGNATURE RECORD**

**EST-01, REV. 9
PAGE 12 OF 12**

TRAINING VERIFICATION:

The signature below certifies the individual has satisfactorily completed all training requirements, understands the responsibilities of an Emergency Services Technician and is recommended for qualification.

Facility Shift Manager. / Date

The signature below approves the individual as a fully qualified Emergency Services Technician.

Facility Operations Manager / Date

This Qualification Card has been reviewed for completeness and signature verification by a Training Coordinator.

Training Coordinator / Date