Issued To

WRITTEN AND PRACTICAL EXERCISES FOR USE WITH

Emergency Vehicle Operation



This Student Workbook Is Compatible With ARIZOFT Courses FSCBL3 and PPP-3



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Student Workbook SW3

Emergency Vehicle Operation

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Student Workbook SW3

Emergency Vehicle Operation

Introduction

Student Workbook SW3 is designed to accompany Arizoft courses FSCBL3 and/or PPP-3, Emergency Vehicle Operation. Theses courses are designed to meet the standards of NFPA Standard 1002, Chapter 2, *General Requirements for Apparatus Driver/Operators*. Arizoft Software and Geoffrey T. Bohrer assume no liability for the conduct of individuals, either on or off the fireground, and by installing or viewing these materials, you agree to release Arizoft Software and Geoffrey T. Bohrer from any liability arising from injury, malpractice, or misconduct on or off the fireground.

This Student Workbook is provided for your convenience in using Arizoft Emergency Vehicle Operation courses. We suggest two ways of using this Student Workbook:

- 1. Use the Student Workbook as an outline for note-taking while viewing Emergency Vehicle Operation.
- 2. Complete the questions for each chapter after viewing to test your learning progress and retention.

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PERIODIC MAINTENANCE CHECKLIST

Apparatus:	Performed By:	Date:
Item:	Status:	Comments:
Battery - Condition & Charge	Gtatus.	Commonts.
-		
Compartment Doors Tires - Condition & Pressure		
Fluid Leaks		
Water & Foam Tank Levels*		·
Pre-Start - Lights and Indicato		
Pre-Start - Voltmeter/ Ammeter	er*	
Starting Sequence		
Engine Temperature		
Idle Oil Pressure		·
Fuel Level*		
Air Brake System		
Head/Tail/Marker Lights		
Brake/Backup Lights		
Emergency Lights		
Interior/ Compartment Lights		
Hazard Lights/Turn Signals		
Horn/Air Horn		
Siren/PA		
Radio Check		
Steering		
Transmission		
Driving/Parking Brakes		·
Pump		
Foam System		
Onboard Hydraulics/Remote S	Systems	
Wipers		
Restraints		
Shutdown Sequence		
Engine Oil		
Transmission/Clutch Fluid		
Brake/Steering Fluid		
Coolant		
Washer Fluid		
Belts/Hoses		
Filters		
Hose Lays/Exterior Equpt.		
Hand Tools/ Hose Equpt.		
SCBA		
Power Tools		
Generators, Pumps, Compres	ssors	
Auxiliaries & Hydraulics		
Other		
Comments:		
Commonto.		

=Checked/Satisfactory; X = Checked/Deficient; O = Not Checked; N/A = Not Applicable Status Codes: Note deficiencies in comment section

* The actual readings of these items should be recorded, unless policy states otherwise.

NOTE: Some apparatus may require items to be checked in an order other than that shown. Always perform checks in accordance with agency policy and manufacturer's recommendations.

AVERAGE REACTION, STOPPING AND BRAKING DISTANCES Assuming An Alert Driver and Dry, Level Pavement

Stopping and braking distances will be greater on wet or dirt roads.

SPEED (MPH)	Reaction Distance	STo	OPPING DIST (feet) Pumper	ANCE Tender	BR Type 6	AKING DISTA (feet) Pumper	NCE Tender
25	28	46	64	80	74	92	108
35	39	92	125	160	131	164	199
45	50	165	210	260	215	260	310
55	61	275	310	390	336	371	451

Written Exercises

Questions for Introduction:

1. If your department's policy is different from the practices presented in this program, which should you follow?
2. What is a self-mobile unit of the fire service called?
3. What is the difference between "standard" and "non-standard" apparatus?

4. Motor-vehicle crashes are the biggest killer of firefighters in the US. T / F

Questions for Chapter 1:

The first building block of safe operation is
2. Preventive maintenance is divided into:
3. The term "circle of safety" refers to
4. Name three items that should be checked during a "circle of safety" check:
5. A major loss of engine oil can lead to
6. Before leaving the station, ensure that all and and are disconnected and stowed away from the vehicle.
7. When starting and running apparatus, ensure that all gauges and indicators remair within
8. Unusual sounds, smells, or feels may be early indicators of
9. The term "run-down time" refers to
10. List three items to be checked during a post-operational walkaround inspection:
11. Apparatus should be returned to service

Questions for Chapter 1 (continued):

		uired to be performed by a certified professional is referred
13.	Define one reportable de	eficiency for each system or item:
	A. Battery: B. Tires: C. Under Vehicle: D. Gauges/Indicators: E. Engine Oil: F. Coolant:	
14.	Equipment tagged as	out-of service should not be:

Questions for Chapter 2:

1. Always useparatus.	when driving or riding in fire ap-
2. Identify two negative consequences to the con	nmunity of an apparatus crash:
3. As an apparatus driver/operator, you may be _ for damages arising from an apparatus crash.	
4. Lights and sirens can cause other drivers to _	-
5. Identify the three human factors involved in dr	riving apparatus:
6. Mechanical factors involved in driving include	maintenance and
7. Mechanical factors are specific to the vehicle	being driven. T / F
8. The central issue in most questions of liability versus	is the issue of
9. As the operator of a fire department vehicle, y some normal traffic laws and regulations.	rou MAY be
10. Identify two criteria commonly used for deter	mining negligence:
11. Identify two effects weather can have on driv	ving conditions:

Questions for Chapter 2 (continued):

12. Identify three adverse weather conditions	:: _
13. Identify two non-weather related hazardo	 ous driving conditions:
14. Braking distance =	_ +
15. The distance the truck will travel in the tin react to it is called	· · · · · · · · · · · · · · · · · · ·
15. The distance the truck travels while the called	
17. What is the distance in feet (according to represented by:	the table at the front of this workbook)
 A. Average reaction distance at 45 MP B. Total braking distance for a Type 6 C. Stopping distance for a pumper at 3 D. Stopping distance for a tender at 25 E. Braking distance for a tender at 55 I 	brush truck at 55 MPH 35 MPH 5 MPH
18. You can reduce total braking distance by driving at a s	
19. You should maintain abehind vehicles in front of you until they yield	

Questions for Chapter 2 (continued):

20. Match the term to its definition	ı:
A. Centrifugal Force B. Engine Braking C. Liquid Surge D. Skid	 used to slow the vehicle pulls toward the outside of a turn caused by inertial action on water the result of a loss of traction
21. Describe 4 steps for recoverin	g from a skid:
	interfere with when
•	a driver are sta-
	eight restrictions may result in or apparatus and or d others.
25. When approaching an intersect and the intersect	ction, you should come to ation before proceeding.
26. Match the gauge or indicator v	vith its function:
A. Tachometer B. Wait to Start C. Speedometer D. Check Engine E. Compound Pressure F. Air Pressure G. OK to Pump H. Coolant Temperature	 Indicates that the PTO is engaged Engine speed May indicate incipient overheating Glow plugs are warming Pressure in the airbrake system Ground Speed Water pressure at all discharges May indicate an unspecified problem

Questions for Chapter 2 (continued):

27. Emergency vehicles should always be ope	rated in accordance with
28. When backing, always ensure that your rectly and that you use a	•
29. Whenspotter even when in a forward gear.	, it is a good idea to use a

Questions for Chapter 3:

	If yo	ou are not the first unit on the scene, what are your usual first steps to take upon !?
		you are the first unit on the scene, you should determine the immediate and report a
3.	List	four typical responsibilities of a first-in unit:
4.	List	the five elements of a good sizeup:
		area away from the fireground where incoming units wait for employment on the ene is called a
6.	Na	me two fireground hazards to look out for when positioning apparatus:
7.	Nar	me two possible fireground water supply sources:

Questions for Chapter 3 (continued):

The positioning and employment of auxil sponsibility of the	
9. As a driver/operator on a wildland fire,	•
10. Retain your	at all times.
11. Remain in communication with usi	
12. It is your responsibility to ensure an ade ply your fire streams.	equate to sup-
13. List the steps required to engage a Powan automatic transmission:	
14. List the steps required to start a freestar	nding pump:
15. Before charging a line, ensure that the land that the nozzle is	ine is
16. To avoid water hammer, always open v	
17. Circulating water through the pump con	stantly keeps it .

Questions for Chapter 3 (continued):

18. Deployed hoses should be laid out in an clear of objects and	-
19. You should announceline.	before introducing water to a
20. Master stream devices are used toloft water into areas inaccessible to hand lines.	and to
21. Never discharge a master stream into	

Practical Exercises

Practical Exercises for Chapter 1:

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	-11	126		- 1

Task:

Perform pre-operational checks on an apparatus.

Conditions:

Given a fire department apparatus, agency policies concerning pre-operational checks, and manufacturer's recommendations concerning operation of the apparatus.

Standards:

The student shall correctly perform all required pre-operational checks and report or correct all deficiencies according to agency standards.

Student:	Instructor:		
		Correct	Incorrect
Checks tire pressure visually			
Checks doors and compartments			
Checks exterior-mounted equipment			
Checks for leaks			
Removes exterior lines or connections			
Checks for foreign objects			
Checks tank water level			
Starts apparatus properly			
Checks all gauges and indicators			
Corrects or reports all deficiencies			
Does not operate apparatus with unsafe condit	ions		
Demonstrates familiarity with manufacturer's re	ecommendations		
TOTAL			

For any task not applicable to the apparatus used, award correct credit.

The student must correctly complete 9 tasks to satisfactorily complete this exercise.

Exercise 1-2

2	0	v	
a	3	N	_

Perform post-operational checks.

Conditions:

Given a fire department apparatus, agency policies concerning pre-operational checks, and manufacturer's recommendations concerning operation of the apparatus.

Standards:

The student shall correctly perform all required post-operational checks and report or correct all deficiencies according to agency standards.

Student:	nstructor:		
		Correct	Incorrect
Idles engine for rundown period			
Observes gauges and running characteristics			
Checks for apparatus damage			
Checks exterior equipment			
Visually checks tire pressure/ foreign objects in	tires		
Checks/cleans dirty equipment			
Replenishes consumables			
Checks/fills water tank			
Washes apparatus as necessary			
Turns off master battery switch			
Performs other checks or services IAW agency	policy		
Demonstrates familiarity with manufacturer's re			
Corrects or reports all deficiencies			
TOTAL			
For any task not applicable to the apparatus us	ed, award correc	ct credit.	

The student must correctly complete 10 tasks to satisfactorily complete this exercise.

Exercise 1-3

2	0	v	
a	3	N	

Perform required periodic operator maintenance checks and services.

Conditions:

Given a fire department apparatus, agency policies concerning periodic maintenance, and manufacturer's recommendations concerning operation of the apparatus.

Standards:

The student shall correctly perform all required periodic operator-level checks and services and report or correct all deficiencies according to agency standards.

Student:I	nstructor:	
	Correct	Incorrect
Checks batteries		
Checks door and compartment latches		
Checks exterior equipment		
Checks tire pressure, tread, and condition		
Checks for evidence of leaks		
Properly starts apparatus		
Observes gauges and indicators		
Checks onboard electrical equipment		
Checks steering system, transmission, and bral	kes	
Operates onboard hydraulic system		
Checks all fluids for level, color, and viscosity a	s required	
Checks all belts, hoses, and filters as required		
Corrects or reports all deficiencies		
Checks, inventories, and operates assigned eq	uipment	
Performs other checks or services IAW agency	policy	
Demonstrates familiarity with manufacturer's re	commendations	
TOTAL		
For any task not applicable to the apparatus use	ed, award correct credit.	

The student must correctly complete 13 tasks to satisfactorily complete this exercise.

Practical Exercises for Chapter 2:

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Task:

Evaluate the factors contributing to safe operation of an emergency apparatus.

Conditions:

Given a fire department apparatus, agency policies concerning apparatus operating and driver selection, and manufacturer's recommendations concerning operation of the apparatus.

Standards:

The student shall correctly evaluate the factors contributing to his or her safe operation of the specified apparatus.

Student:	_Instructor:		
Honestly evaluates own attitude Evaluates own experience Evaluates own condition Evaluates vehicle maintenance and condition Evaluates vehicle performance consideration		Correct	Incorrect
TOTAL			

The student must correctly complete all tasks to satisfactorily complete this exercise.

Exercise 2-2

Task:

Drive an apparatus under non-emergency conditions.

Conditions:

Given a fire department apparatus, agency policies concerning apparatus operation, state and local traffic laws and regulations, and a predetermined route on a public way that incorporates four left and four right turns, a straight section of urban street or two-lane rural road at least one mile long, one through-intersection and two intersections requiring a full stop, one railroad crossing, one curve, a section of highway requiring ramp entrance and exit and long enough to allow at least two lane changes, a downgrade requiring engine braking, an upgrade requiring shifting to maintain speed, and a bridge or underpass having a weight or height restriction. Any requirement not found in the agency's jurisdiction must be simulated as accurately as possible.

Standards:

The student shall negotiate the determined course safely, in accordance with all agency policies and state or local traffic regulations, and with due regard for the safety of the public.

Student:	_Instructor:	
	Corr	ect Incorrect
Ensures that own and passenger restraints are	e used	
Executes turns (grade each turn-total of 8)		
Negotiates straight road		
Negotiates through-intersection		
Negotiates full-stop intersections (total of 2)		
Negotiates railroad crossing		
Negotiates curve		
Negotiates highway entrance and exit (total of	2)	
Executes 2 lane changes (total of 2)		
Executes engine braking on downslope		
Maintains speed on upslope		
Evaluates and negotiates or avoids weight/height	ght limits	
Complies with all laws, regulations, and agence	y policies	
TOTAL		
For any task not applicable to the apparatus us	sed. award correct cre	 dit.

The student must correctly complete 20 tasks to satisfactorily complete this exercise.

Exercise 2-3

=				
	9	0	v	
	ıa	3	N	_

Back an apparatus into a restricted space.

Conditions:

Given a fire department apparatus, a spotter, a restricted-space course as illustrated on the next page, and agency policies concerning vehicle operation.

Standards:

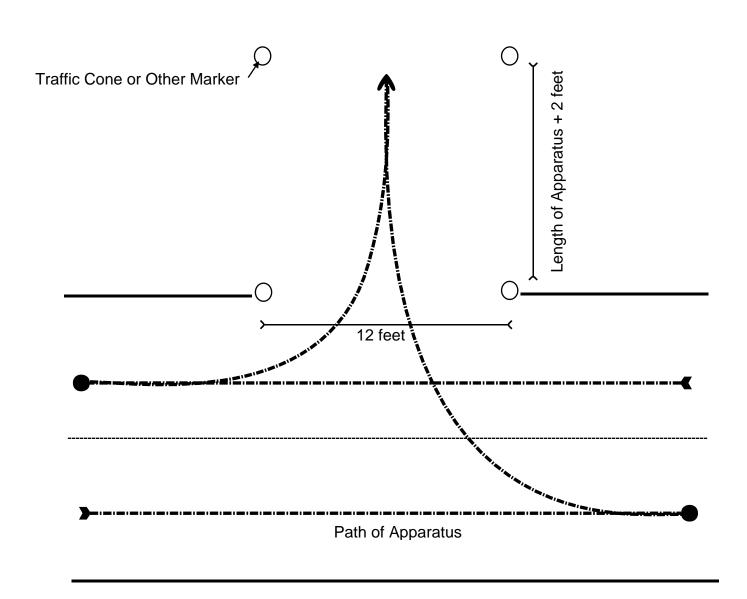
The student shall correctly and safely back the apparatus into the restricted space, following all spotter signals and not striking any markers, without pulling forward, according to agency standards.

Student:	Instructor:		
		Correct	Incorrect
WHILE MAKING A LEFT-HAND BACKING			
Ensures own and passengers' use of restra			
Establishes and maintains visual contact w Uses mirrors to view sides and rear of app	•		
Does not strike markers	aratus		
Does not place apparatus in forward gear			
Front point of apparatus behind markers w	hen parked		
Operates apparatus IAW agency policy			
WHILE MAKING A RIGHT-HAND BACKIN	G TURN:		
Ensures own and passengers' use of restra	aints		
Establishes and maintains visual contact w	•		
Uses mirrors to view sides and rear of app	aratus		
Does not strike markers			
Does not place apparatus in forward gear Front point of apparatus behind markers w	hen narked		
Operates apparatus IAW agency policy	nen parkea		
TOTAL			

The student must correctly complete all tasks to satisfactorily complete this exercise.

Exercise 2-3 (continued):

Course Layout for Exercise 2-3



SIMULATED ROADWAY

Exercise 2-4

2	C	v	
а	3	N	_

Maneuver an apparatus on an obstructed roadway.

Conditions:

Given a fire department apparatus, a spotter, an obstructed-roadway course as illustrated on the next page, and agency policies concerning vehicle operation.

Standards:

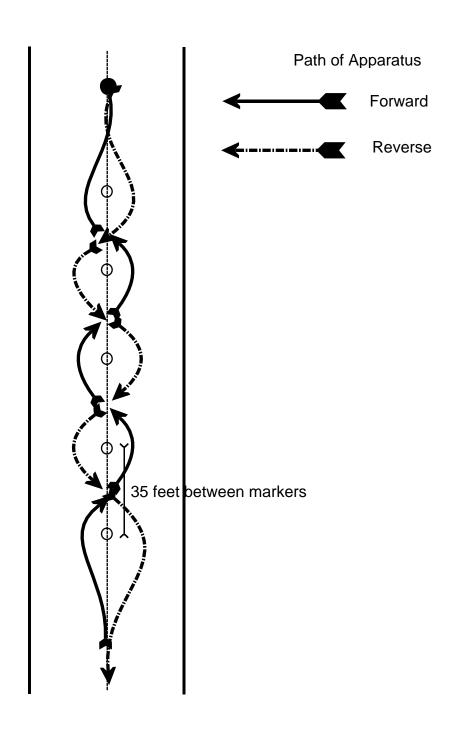
The student shall correctly and safely drive the vehicle, in both forward and reverse gear, around the obstructions in the roadway without stopping to change direction, in accordance with agency policies.

Student:	Instructor:		
		Correct	Incorrect
Ensures own and passengers' use of restra			
Establishes and maintains visual contact with	th spotter		
while in reverse gear			
Uses mirrors to view sides and rear of appa	ratus		
Does not strike markers			
Does not stop to change direction			
Operates apparatus IAW agency policy			
TOTAL			

The student must correctly complete all tasks to satisfactorily complete this exercise.

Exercise 2-4 (continued):

Course Layout for Exercise 2-4



SIMULATED ROADWAY

Exercise 2-5

_	_		_
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	12	C	K.
		-3	Λ.

Turn an apparatus 180 degrees in an area insufficient to make a U-turn.

Conditions:

Given a fire department apparatus, a spotter, a simulated roadway course as illustrated on the next page, and agency policies concerning vehicle operation.

Standards:

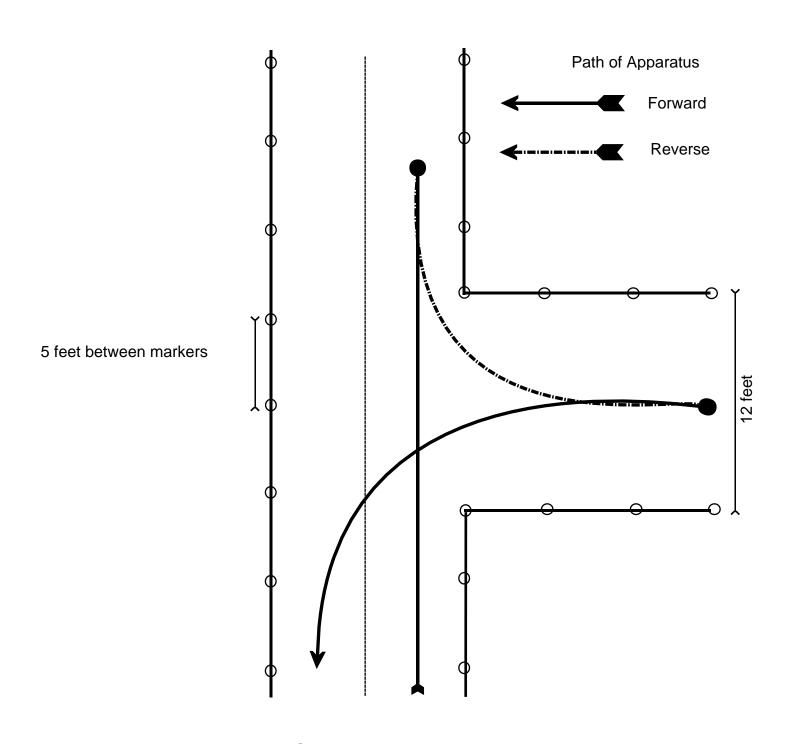
The student shall correctly and safely turn the vehicle 180 degrees using a 3-point turn, ending up in the proper lane, in accordance with agency policies.

Student:	Instructor:		
	Co	orrect	Incorrect
Ensures own and passengers' use of restra Establishes and maintains visual contact wi while in reverse gear			
Uses mirrors to view sides and rear of appa	ratus		
Does not strike markers	_		
Operates apparatus IAW agency policy			
TOTAL	_		

The student must correctly complete all tasks to satisfactorily complete this exercise.

Exercise 2-5 (continued):

Course Layout for Exercise 2-5



SIMULATED ROADWAY

Exercise 2-6

Task:

Drive an apparatus in an area with restricted horizontal clearance.

Conditions:

Given a fire department apparatus, a spotter, a diminishing-clearance course as illustrated on the next page, and agency policies concerning vehicle operation.

Standards:

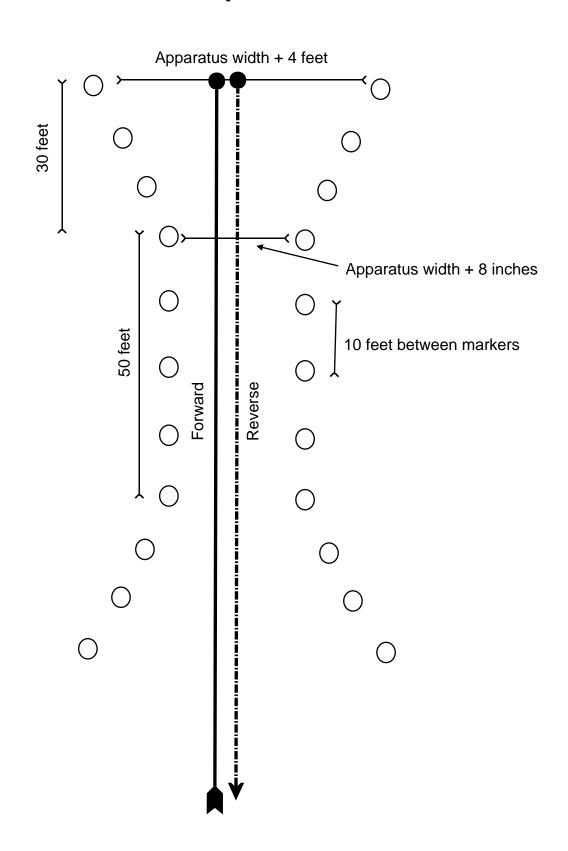
The student shall correctly and safely drive the vehicle through the area of restricted horizontal clearance, in forward and reverse, without striking any markers, in accordance with agency policies. The student shall maintain a minimum speed of 25 miles per hour while in forward gear in the area of restricted horizontal clearance.

Student:	Instructor:		
		Correct	Incorrect
Ensures own and passengers' use of restr			
Establishes and maintains visual contact w	vith spotter		
while in reverse gear Uses mirrors to view sides and rear of app	orotuc		
Does not strike markers	aratus		
Verbalizes distance between rear wheels a	and markers		
Operates apparatus IAW agency policy			
TOTAL			

The student must correctly complete all tasks to satisfactorily complete this exercise.

Exercise 2-6 (continued):

Course Layout for Exercise 2-6



Exercise 2-7

Task:

Recognize and identify the function of automotive gauges and indicators.

Conditions:

Given a fire department apparatus, manufacturer's recommendations, and agency policies concerning vehicle operation.

Standards:

The student shall correctly identify the listed automotive gauges and indicators and verbalize their functions.

Student:	Instructor:		
	Identify	Function	Total
Speedometer			
Tachometer			
Coolant Temperature			
Oil Pressure			
Fuel Level			
Check Engine Light			
Compartment Open Light			
OK to Pump Light			
Water Tank Level Indicator			
Compound Pressure Gauge			
Voltmeter			
Air System Pressure Gauge			
Air Filter Restriction Gauge			
Wait to Start Light			
ΤΟΤΔΙ			

For indicators not present in the apparatus used, award full credit.

The student must be awarded 24 points to satisfactorily complete this exercise.

Practical Exercises for Chapter 3:

Exercise 3-1

Task:

Perform the actions required of a first-in attack unit.

Conditions:

Given a fire department apparatus, a simulated fire scene, and agency policies concerning positioning, first-in activities, accountability, and incident command. NOTE: this exercise may be completed using a simulator or other photographic representation; the student must clearly indicate apparatus positioning.

Standards:

The student shall correctly perform all required activities of a first-in attack unit in accordance with agency policies.

Student:	_Instructor:	
	Correct	Incorrect
Assesses access routes during approach		
Reports arrival to dispatcher		
Positions apparatus with awareness of hazard	<u></u>	
Assesses immediate life-safety risk		
Reports immediate life-safety risk		
Reports nature, location, and extent of fire		
Reports exposures		
Advises incoming units of best access as nec	essary	
Advises incoming units of water supply needs	as necessary	
Verbally assumes incident command		
Activates accountability system IAW agency p	olicy	
TOTAL		
TOTAL		

For any task not applicable to the apparatus used, award correct credit.

The student must correctly complete 9 tasks to satisfactorily complete this exercise.

Exercise 3-2

[2	3	2	v	•
ıc	7	3	N	

Position an attack apparatus at a fire scene.

Conditions:

Given a fire department apparatus, a simulated fire scene, and agency policies concerning positioning. NOTE: this exercise may be completed using a simulator or other photographic representation; the student must clearly indicate apparatus positioning.

Standards:

The student shall correctly position the attack apparatus in order to aid the firefighting effort, while ensuring the safety of all personnel and equipment, in accordance with agency policy.

Student:	Instructor:		
		Correct	Incorrect
Reports to incident command			
Verbalizes awareness of all fireground hazard	ds		
Positions apparatus so as to allow extension			
Position allows employment of master stream			
Position protects apparatus from radiant heat			
Position allows communication with supervisor	or		
Position allows communication with attack tea	ams		
Position not vulnerable to collapse or explosi-	on		
Position facilitates water supply operation			
Vehicle is chocked once positioned			
TOTAL			
TOTAL			

For any task not applicable to the apparatus or fireground situation, award correct credit.

The student must correctly complete 8 tasks to satisfactorily complete this exercise.

Exercise 3-3

Task:	
Operate a	a PTO-powered fire pump.

Conditions:

Given a fire department apparatus equipped with a fire pump powered with a Power Take Off, an attack team handling a hand line, agency policies concerning pump operation, and manufacturer recommendations.

Standards:

The student shall correctly and safely energize, operate, and de-energize the pump. The student shall charge a handline at the pressure specified by agency policy.

Student:	_Instructor:	
	Correct	Incorrect
Places vehicle transmission in neutral		
Disengages clutch (standard transmission)		
Smoothly operates PTO control		
Re-engages clutch OR places tranmission in	gear	
Verifies OK to Pump light		
Ensures pump cooling IAW agency policy		
Verifies handline properly deployed and contr	olled	
Notifies attack team of intent to charge		
Operates valve smoothly when charging line		
Sets discharge pressure using hand throttle I/		
Reduces pressure and closes discharge valve	e smoothly $\qquad \qquad _$	
De-energizes pump correctly and safely		
TOTAL		
IOIAL		

For any task not applicable to the apparatus used, award correct credit.

The student must correctly complete 10 tasks to satisfactorily complete this exercise.

Answers for Introduction:

- 1. Use the policies of your agency.
- 2. Apparatus
- 3. Standard apparatus was in compliance with the requirements of NFPA 1901 when it was manufactured; nonstandard apparatus did not (or variation must include NFPA 1901).
- 4. F (second after heart attacks)

Answers for Chapter 1:

- Maintenance
- 2. Pre-operational inspection; post-operational inspection; periodic maintenance
- 3. A pre-operational walkaround inspection (or variation)
- 4. Any three of: tire inflation, unsecured doors, unsecured equipment, leaks, airlines and electrical lines, overhead obstructions, foreign objects in tire path, exterior water tank gauges (or variation)
- 5. Engine seizure, engine failure (or variation)
- 6. Air lines and electrical hookups (or variation)
- 7. Normal operating range (or variation)
- 8. Equipment failure
- 9. A time recommended by the manufacturer to run the engine at idle prior to shutting the engine down (or variation)
- 10. Any three of : gauges in normal operating range, fuel level, unusual noises, rough running, body damage, unsecured compartments, missing or unsecured external equipment, tire pressure, rocks in tires, replace consumables (or variation)
- 11. Safety zone
- 12. As quickly as possible
- 13. Operator maintenance
- 14. Corrosion or low charge; damage or low tread; excessive or unusual leaks; outside normal operating range; dirty, leakage, or low level; discoloration, leakage, low level
- 15. Started or operated

Answers for Chapter 2:

- 1. Seat belts or provided restraints
- 2. Any two of: deprive fireground of apparatus, create second accident scene, remove apparatus from service; other reasonable answer or variation
- 3. Liable or responsible
- 4. Panic or drive erratically
- 5. Attitude, experience, condition
- 6. performance
- 7. true
- 8. Negligence vs good faith
- 9. exempt
- 10. Failed to use reasonable care, injury to another resulted (or variation)
- 11. Poor visibility, reduced traction
- 12. Any three of: wind, rain, fog, snow, ice, sand-or-dust storms
- 13. Any two of sand, oil, mud, water, dust, smoke
- 14. Reaction distance + stopping distance
- 15. Reaction distance
- 16. Stopping distance
- 17. A. 50; B. 336; C. 125; D. 80; E: 451
- 18. Ahead, reasonable (or variation)

Answers for Chapter 2:

- 19. Reasonable following distance (or variation)
- 20. A-2; B-1; C-3; D-4
- 21. Turn into the skid; release brakes; let up accelerator; when control returns, accelerate gently (or variation)
- 22. Depth perception
- 23. Chemically impaired driver
- 24. Damage; destruction; death; serious injury
- 25. Full stop; scan
- 26. A-2; B-4; C-6; D-8; E-7; F-5; G-1; H-3
- 27. Manufacturer's recommendations
- 28. Mirrors; ground guide or spotter
- 29. Maneuvering in close quarters

Student Workbook SW3

Written and Practical Exercises For Emergency Vehicle Operation

Answers for Chapter 3:

- Report to dispatch Report to command
- 2. Life-safety risk, sizeup
- 3. Determine routes of access; determine life-safety risk; size-up; assume command
- 4. Life-safety risk; involvement; exposures; access; water supply (or variations)
- 5. Staging area
- 6. Any two of: overhead utilities, underground utilities, surface utility storage, radiant heat, explosion, collapse
- 7. Pressurized, static (or variation)
- 8. Incident Commander
- 9. Escape routes, safety zones
- Situation awareness
- 11. Your supervisor, attack teams
- 12. Water supply
- 13. Place transmission in neutral; operate PTO control; place transmission in gear
- 14. Open choke; set throttle and switch to "Start"; operate starter; close choke; set throttle for desired pressure
- 15. Fully deployed; under positive control
- 16. Smoothly and slowly.
- 17. cool

Answers for Chapter 3 (continued):

- 18. Accordion; personnel
- 19. "Charging"
- 20. Apply large quantities of water
- 21. Ventilation opening

TRAINING RECORD

Student NameAgency		
Course: Emergency Vehicle Operation		
Exercise	Date Satisfactorily Completed	Trainer
Computer Training Program		
Introduction Written Exercises (3 of 4 correct)		
Chapter 1 Written Exercises (12 of 15 correct)		
Chapter 2 Written Exercises (23 of 29 correct)		
Chapter 3 Written Exercises (117 of 21 correct)		
	,	
Exercise 1-1		
Exercise 1-2		
Exercise 1-3		
Exercise 2-1		
Exercise 2-2		
Exercise 2-3		
Exercise 2-4		
Exercise 2-5		
Exercise 2-6		
Exercise 2-7		
Exercise 3-1		
Exercise 3-2		
Exercise 3-3		

By signing below, I certify that:

(Signature)	(Title)	(Date)

^{1.} The student above named has satisfactorily completed all requirements outlined in the training program specified above, as indicated, to the best of my knowledge and belief. 2. The authority having jurisdiction over the training of the student above named has accepted the training contained in the training program specified above as satisfying the training requirements of said authority for the tasks and performance requirements addressed in the training. 3. The authority having jurisdiction over the training of the above named student releases Arizoft Software and Geoffrey T. Bohrer of any liability (without limitation) for claims or damages arising from the presentation or performance of the training recommendations contained within this training program, or for the student's subsequent performance or conduct on or off the fireground. 4. I have the authority to make such releases and statements on behalf of the authority having jurisdiction.

This

Certificate of Completion

is awarded to

in recognition of the successful completion of all course requirements for

Emergency Vehicle Operation

as prescribed by

(Agency or Certifying Authority)

In witness thereto undersigned:

(Date)

(Agency Officer, Title)

Notes