Bureau of Land Management

FIRE VEHICLE DRIVER ORIENTATION BL-300



Instructor Lesson Plan February 2014

INTRODUCTION

Driving is one of the most hazardous tasks Bureau of Land Management (BLM) personnel perform. Vehicle-related accidents are often one of the leading causes of firefighter deaths annually, resulting in significant expenditures from damage to property and equipment, associated medical treatment costs, and lost productivity. While not all accidents can be avoided, knowledge of how to safely operate and work around vehicles can significantly reduce the exposure to accidents and near misses.

The intent of the Fire Vehicle Driver Orientation (BL-300) course is to provide all BLM fire personnel with the foundational knowledge to make sound decisions and maintain situational awareness while operating and working around fire vehicles so that everyone comes home safely.

Interagency Standards for Fire and Fire Aviation Operations policy requires that "All employees driving motor vehicles are responsible for the proper care, operation, maintenance, and protection of the vehicle, and to obey all federal and state laws." Successful completion of BL-300 is a BLM driver's first step towards safely and responsibly operating fire-related suppression and support vehicles.

All students must have a current state driver's license and/or a Commercial Driver's License (CDL) Instruction Permit in their possession commensurate with the vehicle requirements they will be operating. All driving requiring a CDL will be performed in accordance with applicable Department of Transportation regulations. BLM drivers may operate vehicles requiring a CDL endorsement provided they possess a CDL instruction permit <u>and</u> a CDL-qualified passenger rides in the cab.

NOTES

DETAILED LESSON PLAN

| CURR | ICULUM: | BLM Fire Management |
|-------------|---|--|
| COUR | SE: | Fire Vehicle Driver Orientation |
| SUGG | ESTED TIME: | 1.5 hours classroom discussion1.5 hours hands-on vehicle orientation and operations (outside exercises) |
| <u>TRAI</u> | NING AIDS | |
| | Computer with CD-ROM | capability |
| | Computer projector and pr | rojection screen |
| | Flip charts and markers | |
| | Interagency Standards for current version | Fire and Fire Aviation Operations (Red Book) |

INSTRUCTIONS TO THE INSTRUCTOR

The instructor should review BLM policies and regulations regarding driving vehicles found in the Red Book in order to answer questions that may occur during the lecture.

The instructor needs to review and understand how to set up and run the outside exercises. Additionally, the instructor will need to find adequate space to conduct the exercises. The amount of time needed for these exercises will be dependent on class size and skill level.

The exercises give the student the opportunity to practice the principles learned during classroom instruction in a controlled environment. Evaluators will need to pay special attention to the student's comfort level and confidence. BL-300 is not intended to be a pass/fail course but an opportunity to orient students to equipment, operating rules, laws and procedures. Additional instruction may be needed throughout the season to enhance the student's driving development process.

FIRE VEHICLE DRIVER ORIENTATION

COURSE OBJECTIVES

Upon conclusion of this course, students will be able to:

- Understand BLM policies and regulations related to driving a government vehicle.
- Perform a driver walk-around inspection and engine start-up.
- Perform a vehicle pre-trip inspection.
- Describe and demonstrate the S.T.O.P. procedure.
- Correctly start and move a parked vehicle to another location.
- On an established course, demonstrate vehicle handling and maneuvering capabilities, including but not limited to, backing, positioning, parking, and braking.
- Demonstrate how to properly use spotters.
- Describe and demonstrate effective spotting techniques.

NOTES

| | | | OUTLINE | AIDS AND CUES |
|----|----------------------------|-----|--|------------------|
| P | Present course objectives. | | | Slides 1, 2, 3 |
| I. | BU | REA | U POLICIES | Slide 4/SWB p. 2 |
| | A. | Dru | ıg-free Workplace | Slide 5 |
| | | (ov | one who is mentally or physically impaired erly tired, on medication, intoxicated, etc.) will permitted to drive an engine or other vehicle. | Red Book |
| | B. | Vel | hicle Operation | |
| | | 1. | Drivers and all passengers must be properly seated in an enclosed cab and belted in with an approved seat belt when traveling on highways or off road. | Red Book |
| | | 2. | Posted speed limits will <u>not</u> be exceeded. Lower speeds may be necessary during poor weather conditions or changing environmental conditions. | |
| | | 3. | All drivers must have a current state driver's license in their possession for the appropriate vehicle class before operating the vehicle. | |
| | | | • A commercial driver's license (CDL) instruction permit is available by taking the appropriate tests for the type of vehicle the driver will operate. | |
| | | | An instruction permit is valid for up to 180 days. | |
| | | | A driver with a CDL instruction permit must be accompanied at all times by a person who has a valid CDL license. | |

OUTLINE AIDS AND CUES A CDL with appropriate endorsements is required when: The vehicle GVWR is 26,000 lbs or more. Towing a vehicle 10,000 lbs GVWR or more. Hauling hazardous material requiring the vehicle to be placarded. II. THE S.T.O.P. PROCEDURE—PREPARATION FOR Slide 6/SWB p. 3 MOVING A GOVERNMENT VEHICLE All drivers of fire vehicles will use the S.T.O.P. procedure prior to operating a vehicle. The vehicle will not be moved until all four items in the S.T.O.P. procedure are addressed. S eat belts on? Before You T ools and equipment stowed? **O**perate

P ersonnel accounted for? T ools and equipment stowed? O perator and Crew have Situational Awareness? P ersonnel accounted for?

A. "S" – Seat belts on?

 Seat belts must be available and used in Bureau motor vehicles. Without exception, seat belts must be worn at all times by drivers and passengers, regardless of the distance to be traveled or the time involved. Slide 7

| | | OUTLINE | AIDS AND CUES |
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| | | • The driver is responsible for asking passengers if they are wearing their seat belts and ensuring that they are worn at all times. | |
| | B. | "T" – Tools and equipment stowed? | Slide 8 |
| | | • Ensure all tools and equipment is secured in cabinets or approved storage areas before moving the vehicle. | |
| | C. | "O" – Operator (driver) and crew have situational awareness? | Slide 9 |
| | | • Determine if the vehicle is clear of hazards. | |
| | | • Never back up without checking behind the vehicle. | |
| | | • Utilize spotters (vehicle occupants) whenever possible. | |
| | D. | "P" – Personnel accounted for? | Slide 10 |
| | | • Ensure all personnel are accounted for and their locations are known. | |
| | | • Communicate your intentions to all personnel before moving the vehicle. | |
| III. | DRI | VER WALK-AROUND | Slide 11/SWB p.4 |
| | vehi | driver walk-around will be done every time the cle is moved. This allows the driver to complete a degree visual inspection of the vehicle. | Slide 12 |
| | | walk-around begins as you approach the vehicle continues in a clockwise or counter clockwise ion. | |
| | | | |

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| | Things to look for before to moving the vehicle include: | Slide 13 |
| | • Rocks in the way of tires | |
| | • Debris or rocks stuck in duals or elsewhere | |
| | • Holes, berms, ditches, etc. | |
| | • Large stumps or downed trees | |
| | Chock blocks secured and in place | |
| | • Gear or equipment around or under the vehicle | |
| | • Vehicles parked near the vehicle | Slide 14 |
| | • Personnel relaxing or sleeping around vehicle | |
| | Body damage that occurred while away from the vehicle | |
| | Cabinet doors closed | |
| | • Side and overhead clearance in and near the path your vehicle will travel | |
| IV. | PRE-TRIP INSPECTION/PREVENTATIVE MAINTENANCE CHECK | Slide 15 |
| | A fire vehicle pre-trip inspection is done to help the operator and crew personnel find problems that could cause a crash or breakdown. This inspection should <u>not</u> be confused with the driver walk-around which is done every time the driver moves a vehicle. | Slide 16 |
| | • The pre-trip inspection should be performed daily, generally at the beginning of each shift, even if the vehicle is not moved. | Red Book |

OUTLINE AIDS AND CUES All BLM fire vehicles inspections will be Red Book documented in the Fire Equipment Maintenance Procedure and Record (FEMPR) or equivalent. V. WORKING NEAR A MOVING VEHICLE Slide 17/SWB p. 5 When working in close proximity to a moving vehicle, there is an increased risk for an accident to occur. A. Vehicle Danger Zones Because of the design and size of our equipment and the environment we work in, there are operator danger zones (blind spots). This visual aid was developed to help in identifying these areas. Notify students that the letters correspond with the zone color. G - Green, Y - Yellow, and R - Red. Green Zones Slide 18 1. The green zones are located directly left and Slide 19 right of the vehicle. Whenever possible, operate in the green zone.

The green zones <u>usually</u> allow for visual

contact with the operator.

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| | 2. | Yellow Zones | |
| | | Yellow zones are limited visibility and mirror use areas. | |
| | | • Notify the driver when you are in these areas. | |
| | 3. | Red Zones | Slide 20/SWB p. 6 |
| | | The red zones are located directly in front and behind the fire vehicle. | |
| | | • Never work in the red areas while the vehicle is moving. | |
| | | • Notify the driver prior to entering red zones. | |
| | | • Stay out of the red zone where the driver has no visual. | |
| | | • The red area in front of the vehicle extends 10 feet out from the front bumper. | Slide 21 |
| | | • You must have visual contact with the driver when working in front of the vehicle beyond the 10-foot range. | |
| B. | Usi | ng Spotters | |
| | zon visi sho | vays use a spotter to compensate for danger es (blind spots) located in the driver's field of on. If alone and no help is available, drivers uld get out of the vehicle and do a visual check inselves. | Slide 22 |

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| 1. | When to Use a Spotter | Slide 23 |
| | Spotters should be used when: | |
| | Backing up | |
| | Performing off-road operations | |
| | Hazardous conditions exist | |
| | Low vehicle clearances exist | |
| | Narrow/confined driving spaces exist | |
| 2. | Spotter Techniques | Slide 24 |
| | • The spotter should have a clear line of sight to the driver. The spotter's position should be located as follows: | |
| | Forward movement: Outside the forward red zone on the driver side windshield | |
| | Backing movement: Outside the rear red zone on the driver side mirror | |
| | The spotter and driver should understand a common set of hand signals. | |
| | should review with students the hand are used on the local unit. | |
| | The spotter and driver need to | Slide 25/SWB p. 7 |

The spotter and driver need to communicate on the planned action.

Where are we going to park?

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| | – How far off the shoulder do we want to be? | |
| | What areas are we going to be traveling through? | |
| | • Spotter distance from the vehicle will depend on various situations at the time of the maneuver; however, visual contact between the spotter and driver shall not be compromised. | |
| | If the driver loses sight of the spotter, the driver should stop immediately and determine the spotter's location. | |
| VI. SITUAT | IONAL AWARENESS (SA) | Slide 26 |
| the drive | al awareness (SA) when operating a vehicle is r's perception of what is happening or has d around him/her. Lack of good situational as is the leading cause of vehicle-related s. | Slide 27 |
| A. Cre | w Safety | Slide 28 |
| • | Know the location of your crewmembers and other personnel at all times. | |
| • | Never move a vehicle without ensuring all personnel are clear of the area. | |
| • | Communicate with personnel on vehicle maneuvers before moving. | |
| • | Honk your horn before moving the vehicle. | |
| • | Understand the vehicle danger zones. | Slide 29 |

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| Possibl | e students to identify concerns in the picture. e answers: the nozzleman is out of sight of the and the nozzleman is directly behind the engine. | Slide 30 |
| B. | Safety Equipment | Slide 31 |
| | Make sure safety equipment is being used correctly. | |
| | • Never move a vehicle until all passengers have their seat belts fastened. | |
| | • Adjust the driver's seat. | |
| | • Adjust mirrors. | |
| | • Make sure the back-up alarm, if equipped, is working. | |
| C. | Pay Attention to the Surroundings | SWB p. 8 |
| | 1. Immediate Surroundings | Slide 32 |
| | Road conditions and type | |
| | Road shoulders | |
| | • Clearances | |
| | Ground cover and type | |

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| respond road ga cut into Ask the mitigat | e students what they see now. This engine was ding to a fire on this two-track road when the every and the engine rolled. The stream had the bank and undercut the road. e students what could have been done to e this hazard. Possible answer: Spotter walking outing) in front of the vehicle. | Slide 33 |
| | 2. General Surroundings | Slide 34 |
| | Rock piles/rock outcroppings | |
| | • Ravines/cliffs | |
| | Damaged roads and/or bridges | |
| this bri What ty potentia | estudents if they would drive their vehicle over dge. The synthesis of things can they do to mitigate the fall for risk? Possible answer: Inspect the bridge, alternate routes, and use a spotter. | Slide 35 |
| D. | Vehicle Placement at the Fireline | Slide 36 |
| | 1. Ingress and Egress | Slide 37 |
| | • Never drive a fire vehicle into a place where egress is difficult. | |
| | Parked vehicles need to face towards an exit (escape route). | |
| | Do <u>not</u> block traffic or other fire vehicles. | |
| | • Leave keys in unattended fire vehicles during fire operations. | Slide 38 |

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| | Roll up windows. | |
| | • When possible, park in the black. | |
| | Watch for hot spots under tires. | |
| | Watch for venting fuel from vehicle fuel tanks. | |
| 2. | Fireline Hazards | |
| | Be aware of fireline hazards (snags, rolling debris, etc.) when parking the vehicle. | Slide 39 |
| 3. | Parking on a Hill | SWB p. 9 |
| | • Turn the wheels uphill or into the inside/embankment. | |
| | • Firmly set the emergency brake or parking brake. | |
| | • Put shifter in "Park" (if automatic transmission) or in a forward gear (if manual transmission); do <u>not</u> leave the transmission in neutral. | |
| | • Turn off the engine. | |
| | • Chock the wheels. | |
| | When utilizing chocks, make sure chocks are on the correct side in reference to the slope. | |
| | Place chock snug against the tire (no large gaps between the tire and chock). | |

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| | Assure the chocks are approved to hold the weight of the engine and will grip the road surface. | |
| VII. STA | ARTING THE VEHICLE | Slide 40 |
| oper com syst | erating BLM fire vehicles is more complicated than rating most passenger vehicles because of their aplicated diesel engines and integrated fire package ems. Additionally, various components, gauges, and the ches must be addressed before starting the engine. | |
| A. | Battery ON/OFF Switch | Slide 41 |
| | Most BLM fire vehicles have a battery ON/OFF switch located inside the driver side door next to the driver's seat. | |
| | • Depending on the specific model of your vehicle this switch may needs to be in the "ON" position for the vehicle to start. | |
| | • When leaving the vehicle unattended, turn the battery ON/OFF switch to the "OFF" position to avoid battery drain. | |
| В. | Driver Adjustments | Slide 42 |
| | • Adjust the driver's seat. | |
| | • Adjust mirrors for proper alignment and maximum view. | |
| C. | Power Control Console | Slide 43 |
| | Some fire vehicles have a power control console that contains the power switches to operate the following features: | SWB p. 10 |

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| | • Emergency Lighting Switches – Activate the emergency lights. | Slide 44 |
| | • Body Master Switch – If equipped, this switch provides power to the fire package. | Slide 45 |
| | • Pump Master Switch – Provides power to the pump. | Slide 46 |
| | • Radio Master Switch –If equipped, this switch provides power to the radio. | Slide 47 |
| D. | Automatic Transmissions | Slide 48 |
| | Vehicles equipped with an automatic transmission must be in the "Park" ("P") position or "Neutral" ("N") position to start (varies by transmission manufacturer/model). | |
| E. | Manual Transmissions | Slide 49 |
| | The clutch must be depressed to start vehicles equipped with manual transmissions. | |
| F. | Ignition | Slide 50 |
| | Start the engine by turning the ignition key. | |
| | • Allow glow plugs to warm up. | |
| | • Ensure water and glow plug indicator lights go off. | |
| G. | Alarms and Buzzers | |
| | • All alarms and buzzers should sound or come on. | |
| | • Wait for alarms and buzzers to go off before releasing the parking brake. | |

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| H. | Gauges | Slide 51 |
| | All gauges should display within normal operating ranges. | |
| I. | Parking Brake | SWB p. 11 |
| | Release the parking brake. | |
| | 1. Air Brake System (if equipped) | Slide 52 |
| | Drivers will need to release the parking break by firmly pushing in the parking brake control. | |
| | This diamond-shaped, yellow, push-pull control knob is typically located on the vehicle dashboard or within the driver's reach. | |
| | 2. Parking Brake System | Slide 53 |
| | Drivers will need to release the parking break by firmly pushing in or pulling out the parking brake control. | |
| | This may be a foot pedal or in-dash lever. | |
| J. | Diesel Particulate Filter (DPF) Operations | Slide 54 |
| | 1. How the DPF Works | |

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| The DPF works by physically trapping and removing particulate matter from the engine's exhaust to reduce particulate matter emissions. The soot that accumulates in the filter must be periodically reduced to ash to prevent excessive exhaust restriction. The soot reduction process, also known as "filter regeneration," is generally performed automatically by the engine and aftertreatment system. | |
| 2. Filter Regeneration | |
| a. Passive Regeneration | Slide 55 |
| Passive regeneration occurs when exhaust gas temperatures are high enough to initiate combustion of the accumulated particulate matter in the DPF, without added fuel, heat or driver action. The driver may see a light in the information center typically yellow or green and solid. | |
| b. Active Regeneration | Slide 56 |
| Active regeneration may require driver action and/or other sources of fuel or heat to raise the DPF temperature sufficiently to combust accumulated particulate matter. | SWB p. 12 |
| Be aware that filter regeneration may occur during inopportune times. Vehicle operators are responsible for familiarizing themselves with the vehicle owner's manual to help mitigate the potential for unanticipated regeneration. | |

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| VIII. ST | Slide 57 | |
| | intain the proper hand positions and proper turning iniques for all driving conditions. | Slide 58 |
| • | Place hands at the 9- and 2 3-o'clock positions on the steering wheel. | |
| • | Place thumbs on the outside of the wheel. | |
| | This helps to avoid injury in the event the steering wheel reacts to the front tires hitting an object such as a rock. | |
| • | Use the shuffle hand technique when turning. | |
| IX. SH | FTING MANUAL TRANSMISSIONS | Slide 59 |
| A. | Putting the Vehicle in Motion | Slide 60 |
| | 1. Depress the clutch. | |
| | 2. Select the proper gear. | |
| | • Second gear (generally) when starting on level ground. | |
| | • First gear when starting on steep slopes. | |
| | 3. Let the clutch out slowly as you slowly depress accelerator. | |
| В. | Up Shifting | Slide 61 |
| | 1. Bring the tachometer to between 2,500 and 3,000 RPM. | |
| | 2. Depress the clutch. | |

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| | 3. | Shift to a higher gear. | |
| | 4. | Let the clutch out slowly as you slowly depress accelerator. | |
| C. | Do | wn Shifting | Slide 62 |
| | 1. | Bring the tachometer to 1,500 RPM (avoid lugging the engine). | SWB p. 13 |
| | 2. | Depress the clutch. | |
| | 3. | Shift to a lower gear. | |
| | 4. | Let the clutch out slowly as you slowly depress accelerator. | |
| D. | Put | ting the Vehicle in Motion on a Hill or Slope | Slide 63 |
| | 1. | Set the parking brake. | |
| | 2. | Put right foot on brake; left foot on clutch. | |
| | 3. | Shift into first gear. | |
| | 4. | Let clutch out slowly as you slowly depress accelerator. | |
| | 5. | Feel a pull forward; then release the parking brake. | |
| | 6. | Maintain RPM through the climb. | |
| K. AU | TOM | IATIC TRANSMISSIONS | Slide 64 |
| A. | Sta | rting the Engine | Slide 65 |
| | 1. | Start the engine in park. | |
| | 2. | Put right foot on the brake pedal. | |
| | 3. | Turn the ignition key to start the engine. | |

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| | B. | Select the Proper Gear for Travel | |
| | C. | Putting the Vehicle in Motion | |
| | | • Release the brake pedal, and drive in proper gear. | |
| | | • If the transmission shifts constantly, go to a lower gear selection. | |
| XI. | AIR | BRAKE USE | Slide 66/SWB p.14 |
| | A. | Normal Stops | Slide 67 |
| | | Apply the brakes at first and gradually release as speed is reduced. | |
| | | • Do not "fan" the brakes. | |
| | | "Fan" refers to the repeated rapid application and releasing of the air brakes during a stop. | |
| | | Avoid this action since it results in poor brake performance lowering the reservoir and air line pressures. | |
| | B. | Downhill Runs | Slide 68 |
| | | • Use the proper gear reduction to maintain the vehicle at a safe speed. | |
| | | • Brake application can be made intermittently to keep the vehicle well under control. | |
| | C. | General Braking and Stopping Issues | Slide 69 |
| | | Allow for extra stopping distance when driving a vehicle with extra passengers or a heavy load. | |

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| | | Be aware that water in the tank can slosh around even in a baffled tank. | |
| | | There is potential for more skidding when braking on gravel roads than on paved roads. | |
| | | Apply gentle but firm pressure on the brake pedal. | |
| | | Do not lock up the wheels (dynamite braking). | |
| | RRAIN IVING | CONCERNS IN OFF-ROAD VEHICLE | Slide 70 |
| A. | Mud | and Sand Areas | Slide 71 |
| | | Make sure the 4-wheel drive hubs and transfer case are engaged before entering the area. | |
| | • | Maintain momentum. | |
| | • | Keep front tires straight. | |
| | • | Maintain a smooth, steady speed. | |
| B. | Side | Hills | Slide 72 |
| | • | Be aware of load shifting (weight transfer). | SWB p. 15 |
| | | Full versus partial tank of water | |
| | | Be aware of how load structuring affects your center of gravity. | |
| | | - Coolers | |
| | | - Packs | |
| | | - Hose | |

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| | Be aware of soil types the vehicle is traveling over and their effects on sliding or rollovers | Slide 73 |
| | Loose and sandy | |
| | Hard pan | |
| | Rocky or gravelly | |
| C. | Hills | Slide 74 |
| | • Select the proper gear before climbing a hill. | |
| | Do <u>not</u> force shifting while on a hill; this action could result in missing a gear or stalling. | |
| | • Down shift on the crest of a hill before descending. | |
| | This prevents free-wheeling and missing a gear. | |
| D. | Road Shoulders or Dozer Berms | Slide 75 |
| | When going over or coming out of road shoulders or dozer berms, address the following: | |
| | • Vehicle's center of gravity | |
| | • Break-over angles | |
| E. | Water Fording | Slide 76 |
| | • Unless stated otherwise in the Original Equipment Manufacturer's (OEM) documentation, the maximum water depth to cross should not exceed the center-point or hub of the vehicle's wheel. | |

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| Remember to scout out water crossings, checking the water depth and stream bed condition prior to making the crossing. | |
| III. OUTSIDE EXERCISES | Slide 77 |
| The outside exercises consist of several driving stations which provide students the opportunity to practice the principles learned during classroom instruction in a controlled environment. | Slide 78 SWB. P 16 |
| This may be the first time that the student has operated a vehicle of this type. Evaluators must pay special attention to the student's comfort and confidence levels. | |
| During the outside exercises, students will: | Slide 79 |
| • Perform a driver walk-around. | |
| • Demonstrate driver situational awareness. | |
| • Demonstrate the S.T.O.P. procedure. | |
| • Perform an engine start-up. | |
| • Drive a vehicle in an urban setting. | |
| • Drive the vehicle in an off-road environment. | |
| • Use spotters when appropriate. | |
| Be evaluated by an instructor. | |
| Additional instruction and driving time may be needed throughout the season to complement development processes. | |
| Present the Fire Vehicle Driving Orientation (BL-300) | Slides 80 and 81 SWB p. 17 |

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| XIV. CONCLUSION | Slide 82 |
| A. Final Thoughts | Slide 83 |
| • Never move a vehicle without ensuring that personnel are clear! | |
| Use spotters where appropriate. | |
| Honk the horn prior to moving a vehicle. | |
| Buckle up! | |
| B. Review Course Objectives | Slides 84 and 85 |

OUTSIDE EXERCISES

Exercise Intent:

The intent of the outside exercises is to allow the student to become familiar with driving a vehicle in a controlled environment. Instructors will evaluate and provide immediate feedback to students on their driver walk-around inspections, driving situational awareness (SA), use of the S.T.O.P. procedure, and handling and maneuvering capabilities (vehicle control).

Materials/Equipment:

| Vehicle(s) similar to what each student will be assigned |
|--|
| Fire Vehicle Driving Orientation Student Evaluation (one for each student) |
| Evaluator(s) for each vehicle |

Evaluator/Facilitator Information:

- As appropriate, present each scenario and task to students and participants.
- Stage tools and equipment on or around the vehicle for the students to identify and mitigate for each exercise. Create situations (cabinet doors left open, wheels not chocked, passengers not seat belted, personnel on or around engine, etc.) for the student to identify and correct prior to moving the engine.
- Talk to each driver and verbally critique each driver's performance. Give the students feedback to improve their driving skills and SA.
- Discuss with students what could have been done differently.

EXERCISE #1

Driver Walk-Around

Scenario: You have been asked to do a driver walk-around on a vehicle in preparation for driving. A few passengers are getting their gear ready to load on the vehicle.

<u>Task 1:</u> Properly perform a driver walk-around following the procedures as described in the during classroom instruction.

<u>Task 2:</u> Have the passengers load their gear and themselves in the vehicle, and then prepare to leave for a new location in the yard.

EXERCISE #2

Vehicle Start-up and Shut-down

Scenario: You have been asked to perform a complete and correct vehicle start-

up and shut-down procedure.

<u>Task 1:</u> Correctly start up the vehicle in preparation for movement. Remove

chock and place onboard the vehicle, power up all necessary systems, make all driver adjustments, ensure all gauges are operating in the optimum range, engage transmission is in correct gear, release parking

break, and pull forward.

<u>Task 2:</u> Correctly shut down the vehicle. Power down all necessary systems,

place transmission in correct gear, apply parking break, and chock

engine.

EXERCISE #3

Driver Situational Awareness (SA)

Scenario: You have been asked to back up a vehicle to a loading dock. Another

passenger is getting his/her gear ready to load on the vehicle. Other personnel in the yard are doing the same thing in preparation for initial attack (IA) work. Multiple IA fires have been reported on the district

from a storm that occurred the night before.

Task 1: Properly carry out the movement of the vehicle in the yard keeping in

mind situational awareness.

EXERCISE #4

Vehicle Start-up and Driving

- <u>Scenario</u>: You have been asked to start and move a vehicle to a predetermined location in the BLM yard; there are other passengers in the vehicle.
- <u>Task 1:</u> Properly perform vehicle start-up by following the procedures as described during classroom instruction.
- <u>Task 2:</u> Once the vehicle has been started and all warning lights and buzzers are off, release the parking brake and move the vehicle to the predetermined parking spot.
- <u>Task 3:</u> After the vehicle has been moved to the designated spot, demonstrate proper shut-down procedures.

EXERCISE #5

Urban and Off-Road Driving

- <u>Scenario</u>: You have been asked to drive the vehicle in an urban and off-road setting.
- <u>Task 1</u>: Operate the vehicle in an urban setting while maintaining situational awareness.
- <u>Task 2</u>: Operate the vehicle in a pre-established, off-road setting, maneuvering along two-track roads, washouts and draws, and on steep slopes.
- <u>Task 3</u>: Utilize spotters while keeping the vehicle danger zones in mind.

EXERCISE #6

Backing and Spotter Use

Scenario: You have been asked to start up and back up the vehicle to a

predetermined location.

<u>Task 1</u>: Position the vehicle to back into the predetermined spot.

<u>Task 2</u>: Identify a spotter to assist you in backing and inform him/her how you

are going to position the vehicle.

<u>Task 3</u>: Utilize the vehicle mirrors to locate the spotter, honk horn, and

proceed to back into the parking spot.

<u>Task 4:</u> After the vehicle has been moved to the designated spot, demonstrate

proper shut-down procedures.

Bureau of Land Management Fire Vehicle Driver Orientation (BL-300)

Driver must have a valid state driver's license in their possession for appropriate vehicle class before operating the vehicle.

| Student | Evaluator | | | |
|---|-----------|------------|----|----|
| Printed Name Printed Name | | | | |
| | | | | |
| Duty Station Duty Station | | | | |
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| Task | A* | B * | C* | D* |
| Demonstrated knowledge of BLM Driving Policy per the Interagency Standards for Fire an | d Fire | | | |
| Aviation Operations. | | | | |
| Completed an initial driver walk around. | | | | |
| Demonstrated knowledge of completing a vehicle inspection utilizing the <i>Fire Equipment</i> | | | | |
| Maintenance and Procedure Record (FEMPR) or equivalent. | | | | |
| Demonstrated how to properly start up and shut down the vehicle. | | | | |
| Ensured gauges are functioning properly. | | | | |
| Allowed glow plugs to warm up. | | | | |
| Ensured seat belts were worn. | | | | |
| Performed driver adjustments. | | | | |
| Released/engaged parking brake. | | | | |
| Demonstrated the following correct urban driving skills: | | | | |
| • Started and stopped the vehicle on a flat surface, incline, and decline. | | | | |
| Merged with traffic. | | | | |
| Controlled vehicle speed for various road and traffic conditions while using proper | r gears. | | | |
| Properly backed up the vehicle. | | | | |
| Correctly parked the vehicle. | | | | |
| Maneuvered in city traffic. | | | | |
| Demonstrated the following off-highway driving skills: | | | | |
| Maneuvered along a two-track road. | | | | |
| Maneuvered through washouts and draws. | | | | |
| Maneuvered through rocky terrain utilizing a spotter. | | | | |
| Maneuvered on rough, steep slopes, and side hills. | | | | |
| Maintained situational awareness. | | | | |
| Utilized spotters. | | | | |
| Established communication between spotter and driver. | | | | |
| Accounted for personal safety. | | | | |
| Utilized mirrors. | | | | |
| Discussed proper methods and procedures for maneuvering through streams, waterways, or | standing | | | |
| water. | Startung | | | |
| Demonstrated the ability to park and secure a vehicle at various locations; e.g., city/town, fie | eld | | 1 | |
| environment, road shoulder, and work yard. | | | | |
| Discussed and demonstrated use of the S.T.O.P. procedure. | | | | |
| Discuss and demonstrated the use of the Operator Command Regeneration System (OCR), is | f | | + | |
| equipped. | 1 | | | |
| Type of Vehicle Used: | | | 1 | I |

| *Type of | Vehicle | Used: |
|----------|---------|-------|
|----------|---------|-------|

| A) | <26,000 GVWR (<i>list type</i>): | |
|----|------------------------------------|--|
| B) | >26,000 GVWR (<i>list type</i>): | |

- C) Hummer (650)
- D) Super Heavy (668)

| | Student Signature | Date | Evaluator Signature | Date |
|---|-------------------|------|---------------------|------|
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