

City of Sedro-Woolley Fire Department

Training

SECTION TITLE: Training Facility

SECTION NUMBER:

EFFECTIVE DATE: 7-1-05

REVISION DATE: Draft 2-05

PURPOSE

To establish safe guidelines, for the use of the Sedro-Woolley Live Fire Training Facility.

POLICY

1. Prerequisites of Use.

1.1 Prior to being permitted to participate in live fire training evolutions, the student shall have received training to meet the job performance requirements for Fire Fighter I in NFPA 1001, Standard for Fire Fighter Professional Qualifications, related to the following subjects:

- (1) Safety
- (2) Fire behavior
- (3) Portable extinguishers
- (4) Personal protective equipment
- (5) Ladders
- (6) Fire hose, appliances, and streams
- (7) Overhaul
- (8) Water supply
- (9) Ventilation
- (10) Forcible entry

1.2 Students participating in a live fire training evolution who have received the required minimum basic training from other than the authority having jurisdiction shall not be permitted to participate in any live fire training evolution without presenting prior written evidence of having successfully completed the prescribed minimum training to the levels specified in 1.1.

1.3 Fire Training Facility use agreement shall be sign and turned in to the Sedro-Woolley Fire Department prior to use by others.

2. Structures and Facilities.

2.1 Strict safety practices shall be applied to all structures selected for fire training evolutions.

2.2 Training center burn buildings and props shall be inspected visually for damage prior to training evolutions.

2.3 Damage shall be documented.

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2.4 Where the damage is severe enough to affect the safety of the students, training shall not be permitted.

2.5 All doors, windows and window shutters, and roof scuttles shall be checked and operated prior to any training evolution to ensure they operate correctly.

2.6 All safety devices, such as thermometers, evacuation alarms, shall be checked prior to any live fire training evolutions in the burn building to ensure they operate correctly.

2.7 Training center shall be left in a safe condition upon completion training evolutions.

2.8 Debris hindering the access or egress of fire fighters shall be removed prior to the beginning of the next training exercises.

2.9 In preparation for live fire training, an inspection of the structure shall be made to determine that the floors, walls, stairs, and other structural components are capable of withstanding the weight of contents, participants, and accumulated water.

2.10 Awareness of weather conditions, wind velocity, and wind direction shall be maintained, including a final check for possible changes in weather conditions immediately before actual ignition.

2.11 The water supply for any individual live fire training evolution shall be assessed based on the extent of the evolutions to be performed.

2.12 Consideration shall be given to the control and extinguishment of the fire and the provision of necessary backup lines to protect personnel.

2.13 The minimum water supply of 200 gallons and each hose line shall be capable of delivering a minimum of (95 gpm).

2.14 A minimum reserve of additional water in the amount of 200 gallons shall be available to handle exposure protection or unforeseen situations.

2.15 Separate sources shall be utilized for the supply of attack lines and backup lines in order to preclude the loss of both water supply sources at the same time.

2.16 Areas for the staging, operating, and parking of fire apparatus that are used in the live fire training evolution shall be designated.

2.17 An area for parking fire apparatus and vehicles that are not a part of the evolution shall be positioned so as not to interfere with fireground operations.

2.18 Consideration shall be given to locating this area in order to facilitate prompt response of apparatus in the event of an emergency.

2.19 Consideration shall be given to the designation and layout of ingress/egress routes in order to ensure their availability in the event of an emergency.

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- 2.20 Prior to conducting actual live fire training evolutions, a pre-burn briefing session shall be conducted for all participants.
- 2.21 All facets of each evolution to be conducted shall be discussed in the pre-burn briefing, and assignments shall be made for all crews participating in the training session.
- 2.22 The location of simulated victims shall not be required to be disclosed, provided that the possibility of victims is discussed during the pre-burn briefing.
- 2.23 No person(s) shall play the role of a victim inside the Building or around burn props during live fire evolution.
- 2.24 A pre-burn plan shall be prepared and shall be utilized during the pre-burn briefing sessions.
- 2.25 All features of the training areas and structure shall be indicated on the pre-burn plan.
- 2.26 There shall be room provided around all props so that there is space for all attack lines as well as backup lines to operate freely.
- 2.27 Prior to conducting any live fire training, all participants shall be required to conduct a walk-through of the structure in order to have a knowledge of and familiarity with the layout of the building and to facilitate any necessary evacuation of the building.
- 2.28 All possible sources of ignition, other than those that are under the direct supervision of the person responsible for the start of the training fire, shall be removed from the operations area. There will no smoking on the premises.
- 3 Fuel Materials.
- 3.1 The fuels that are utilized in live fire shall be clean burning, clean wood (pallets) or LPG.
- 3.2 After the use of LPG props all valves from the tank to the prop shall be closed.
- 3.3 Fuel materials shall be used only in the amounts necessary to create the desired fire size and temperatures.
- 3.4 The instructor-in-charge shall assess the selected fire environment for factors that can affect the growth, development, and spread of the fire.
- 3.5 The training exercise shall be stopped immediately when the instructor-in-charge determines through ongoing assessment that the combustible nature of the environment represents a potential hazard.
- 3.6 The exercise shall continue only when actions have been taken to reduce the hazard.
- 3.7 During the entire time the LPG props are in use, the remote shutoff shall be continuously attended by control officer trained in its operation.

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4 Safety.

4.1 A safety officer shall be appointed for all live fire training evolutions.

4.2 The safety officer shall have the authority, regardless of rank, to intervene and control any aspect of the operations when, in his or her judgment, a potential or actual danger, accident, or unsafe condition exists.

4.3 The responsibilities of the safety officer shall include, but shall not be limited to, the following:

- (1) Prevention of unsafe acts
- (2) Elimination of unsafe conditions

4.4 The safety officer shall provide for the safety of all persons on the scene including students, instructors, visitors, and spectators.

4.5 The safety officer shall not be assigned other duties that interfere with safety responsibilities.

4.6 The safety officer shall be knowledgeable in the operation and location of safety features available, such as emergency shutoff switches, gas shutoff valves, and evacuation alarms.

4.7 The instructor-in-charge of the live fire training evolutions shall determine, prior to each specific evolution, the number of training attack lines and backup lines that are necessary.

4.8 Backup lines shall be provided to ensure adequate protection for personnel on training attack lines.

4.9 The instructor-in-charge shall assign the following personnel:

- (1) One instructor to each functional crew, which shall not exceed five students
- (2) Additional personnel to backup lines to provide mobility
- (3) One additional instructor for each additional functional assignment
- (4) One safety person to each manually activated safety station

4.10 A method of fireground communications shall be established to enable coordination among the incident commander, the interior and exterior divisions, the safety officer, and external requests for assistance. Hand signal shall be used to communicate gas shut down. A constant line of site must be maintained with Control Officer, Instructor and Safety Officer during the use of LPG props.

4.11 Emergency medical services shall be available on site, a minimum of one EMT & one FR with BLS trauma and airway bag to handle injuries. Firefighters in standby may fill this position.

4.12 Written reports shall be filled out and submitted on all injuries and on all medical aid rendered.

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4.13 One person who is not a student shall be designated to control the materials being burned and to ignite the training fire in the presence of and under the direct supervision of a safety officer.

4.14 Safety Officer may ignite the fires as long as it does not interfere with his duties.

4.15 The person designated to control the materials being burned and to ignite the training fire shall wear full protective clothing including self-contained breathing apparatus (SCBA).

4.16 The Control Officer at the control station shall wear full protective clothing, an SCBA is not required.

4.17 The decision to ignite the training fire shall be made by the instructor-in-charge, in coordination with the safety officer.

4.18 Fires shall not be located in any designated exit paths.

4.19 The training session shall be curtailed, postponed, or canceled, as necessary, to reduce the risk of injury or illness caused by extreme weather conditions.

4.20 Each participant shall be equipped with full protective clothing and self-contained breathing apparatus (SCBA).

4.21 All participants shall be inspected by the safety officer prior to entry into a live fire training evolution to ensure that the protective clothing and SCBA are being worn and are in serviceable condition.

4.22 Personal alarm devices shall be worn and on and tested prior to entering the burn building.

4.23 All students, instructors, safety personnel, and other personnel shall wear protective clothing whenever they are involved in any evolution or fire suppression operation during the live fire training evolution.

4.24 All students, instructors, safety personnel, and other personnel participating in any evolution or operation of fire suppression during the live fire training evolution shall breathe from an SCBA air supply whenever operating under one or more of the following conditions:

(1) In an atmosphere that is oxygen deficient or contaminated by products of combustion, or both

(2) In an atmosphere that is suspected of being oxygen deficient or contaminated by products of combustion, or both

(3) In any atmosphere that can become oxygen deficient or contaminated, or both

4.25 All spectators shall be restricted to an area outside the operations area perimeter established by the safety officer.

4.26 Visitors who are allowed within the operations area perimeter to observe operations shall be escorted at all times.

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4.27 Visitors who are allowed within the operations area perimeter shall be equipped with and shall wear complete protective clothing.

4.28 An accountability system must be active prior to the start of any training evolution.

5 Instructors.

5.1 All instructors shall be deemed qualified to deliver fire fighter training by the authority having jurisdiction.

5.2 The participating student-to-instructor ratio shall not be greater than 5 to 1.

5.3 Additional instructors shall be designated when factors such as extreme temperatures or large groups are present, and classes of long duration are planned.

5.4 The instructor-in-charge shall be responsible for full compliance with this standard.

5.5 Prior to the ignition of any fire, instructors shall ensure that all protective clothing and equipment are being worn.

5.6 The instructor-in-charge shall consider the circumstances of each training session and make suitable provisions for the rest and rehabilitation of members operating at the scene, including medical evaluation and treatment, food and fluid replenishment, and relief from climate conditions, in accordance with the circumstances of the training session.

5.7 Safety Officer and Control Officers shall be trained to perform their duties and authorized by the Chief or the Assistant Chief of Sedro-Woolley Fire Department.

6 Ignition

6.1 The fuels that are utilized in live fire shall be clean burning, clean wood (pallets) or LPG.

6.2 Prior to the ignition of LPG props all valves to the props are closed.

6.3 Prior to the ignition of any fire, instructors shall ensure that all protective clothing and equipment are being worn.

6.4 The person designated to control the materials being burned and to ignite the training fire shall wear full protective clothing including self-contained breathing apparatus (SCBA).

6.5 One person who is not a student shall be designated to control the materials being burned and to ignite the training fire in the presence of and under the direct supervision of a safety officer.

6.6 Safety Officer may ignite the fires as long as it does not interfere with his duties.

6.7 The Control Officer at the LPG control station shall wear full protective clothing, an SCBA is not required.

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6.8 Awareness of weather conditions, wind velocity, and wind direction shall be maintained, including a final check for possible changes in weather conditions immediately before actual ignition.

6.9 A method of fireground communications shall be established to enable coordination among the incident commander, the interior and exterior sectors, the safety officer, and external requests for assistance. Hand signal shall be used to communicate gas shut down. A constant line of site must be maintained with Control Officer, Ignition Officer during the ignition of LPG props.

6.10 The minimum water supply of 200 gallons and hose line that shall be capable of delivering a minimum of (95 gpm) shall be charged and manned prior to igniting LPG props.

6.11 The minimum water supply of 200 gallons and hose line that shall be capable of delivering a minimum of (95 gpm) shall be charged and at an easy access location for Ignition Officer prior to igniting fire in the burn building.

6.12 Propane burner shall be used to light burn props and pallets. Flares maybe used for igniting the LPG props.

- (1) Prior to ignition open prop valve to relieve any pressure.
- (2) Ignite torch
- (3) Communicate to control officer on readiness and safety hose line in place.
- (4) Approach prop upwind and uphill, place torch near prop burner.
- (5) Signal Control Officer to open valve a small amount.
- (6) For flare use, place flare close to burner and back away and signal Control Officer to open valve.