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**Introduction**
The fire prevention program was implemented to protect faculty, staff, students, visitors, contractors, property and assets of Northern Arizona University (NAU). The Fire Safety Manual serves as a guide for establishing and maintaining fire safety conditions at the university. NAU is under the jurisdiction of the University Fire Marshal by appointment from the Office of the Arizona State Fire Marshal (AZFM).

**Compliance and Responsibility**
Due to the danger of injury or death from fire-related emergencies; faculty, staff, students and contractors must comply with this program. Any hazardous or emergency situation must be reported to the proper authorities. Failure to do so could result in the possible loss of life and property. Persons who knowingly and/or willingly violate the provisions of this program may be subject to disciplinary action. The responsibilities for campus fire prevention rest on all levels of the university and are outlined as follows:

**The President of the University**
As the chief executive, the President has ultimate responsibility for establishing and maintaining environmental health and safety programs for the University, and provides continuing support for the Fire Safety Program.

**Vice-Presidents, Deans, Chairs, and Directors**
These administrators are responsible for enforcing fire safety programs in areas under their control, and providing assistance in conducting safety inspections, correcting violations, and implementing fire prevention and evacuation policies.

**Supervisors**
Supervisors must brief employees on the specific hazards of their work area, on fire reporting and evacuation plans, and fire extinguisher locations.

**Employees**
New employees, when attending the initial orientation, will receive an overview of the safety programs provided by the Fire Prevention Office and should become familiar with the services.

Employees should comply with fire safety guidelines and receive refresher training annually.

**Students**
Students should familiarize themselves with the fire safety guidelines of NAU Fire Safety Manual and Residential Life. They should report vandalism and fire hazards to the Fire Prevention Office or Residential Life.
The Fire Prevention Office
The Fire Prevention Office is established within the jurisdiction under the direction of the fire code official. The function of the department shall be the implementation, administration and enforcement of the provisions of the fire code.

- Provides a fire-safe environment for employees, faculty, students and visitors.
- Coordinates and reports code compliance inspections.
- Responds to fire incidents.
- Assists in the response to reports from the State Fire Marshal.
- Acts as liaison to other local and state regulatory agencies.
- Regulates university departments on allowable quantities of flammable materials in storage and compatibility issues.
- Monitors fire detection and fire suppression system maintenance and inspections.
- Develops and publicizes university fire policy.
- Conducts emergency evacuation exercises.
- Provides fire safety education and training.
- Participates in the design of fire detection and alarm system standards.
- Participates in the design, construction, and renovation of buildings.

Operations/Fire Life Safety (FLS)
The Fire Life Safety Department is responsible for the testing, inspection and maintenance of the campus fire safety equipment.

- Inspects, tests, and maintains fire detection and suppression systems.
- Inspects, test and maintains fire extinguishers.
- Inspects and tests emergency exit signs and lighting.
- Inspects and tests building fire protection features.
- Corrects fire code deficiencies in a timely manner.
- Assists in the design of fire suppression, detection and alarm systems

Housing and Residence Life
Northern Arizona University’s (NAU) Residential Life supports the student population with living quarters on the university’s campus. NAU must ensure all operations and living quarters are safe and compliant with all applicable federal, state, and local codes, standards, and ordinances, e.g., building codes and fire codes.

- Provides fire safety education for student residents and housing staff.
- Conducts monthly in-house code compliance inspections for residence halls and apartments.
- Assists and coordinates emergency evacuation exercises for housing units.
- Corrects fire code violations in a timely manner.

Planning, Design & Construction
The NAU Planning, Design & Construction Department is responsible for ensuring each facility or area within a facility complies with applicable codes and regulations in regards to designing, constructing, or remodeling. Planning, Design & Construction is responsible for inspecting, reviewing plans, and corresponding with each university department and/or facility supervisor as well as regulators to facilitate a safe compliant facility.
Prevention Measures
It is of the utmost importance to be aware of conditions that may cause a fire emergency and thereby endanger the safety of occupants in the workplace and the residence halls. The major causes of fires at the workplace include overloaded electrical outlets and extension cords, misuse of space heaters, mishandling of flammables, improper storage of combustibles, unsupervised cooking, and improper disposal of smoking materials on campus grounds. Implementing fire prevention measures is the key in an attempt to insure one’s personal safety and the safety of roommates, officemates, and friends.

In cooperation with the Fire Prevention Office, building officials should do the following:

Prevention Measures
- Make certain that a copy of the "Fire and Emergency Procedures" is posted in a conspicuous location on each floor.
- Have an understanding and knowledge of the contents of the "Fire and Emergency Procedures."
- Regularly observe emergency evacuation routes, fire extinguishers and emergency and exit lights.
- Immediately report any missing equipment or any other problems discovered to FLS.
- Encourage occupants to actively participate in fire drills that are conducted regularly.
- Regularly observe the lobby, corridors, stairwells, and keep them clear of obstructions.
- Regularly observe all exits to keep them clear of obstructions at all times.
- Report any tampering with the fire alarm, smoke detection and suppression systems to FLS.
- Regularly observe fire doors to make certain they are closed at all times; report inoperable doors to Facilities Services or the respective GMM.
- Inspect offices in search of:
  - Overloaded circuits
  - Frayed or damaged electrical cords
  - Improperly used extension cords
  - Improperly used appliances

Open Flames and Smoking
- The use of candles or any other open-flame devices is strictly prohibited in all university buildings (Exception – when approved/permitted by the Fire Marshal).
- Respect the "No Smoking Policy" in all NAU facilities.

The Smoke-Free Arizona Act prohibits smoking in public places and places of employment.

The new regulations also prohibit smoking within at least 20 feet of doors (except emergency exits), windows that are capable of being opened and ventilation systems. NAU's residence halls, including family housing, already are smoke free.

Coconino County is charged with enforcing the regulations, but Human Resources personnel will serve as points of contact for campus inquiries. Call (928) 523-2223 or send an e-mail to HR.contact@nau.edu.

More information is available at www.smokefreearizona.org.
**Housekeeping**

- Fire doors must be kept closed at all times unless they are held open by an approved device connected to the fire alarm system.
- Exits, stairways and passageways leading to and from exits must be kept free of obstructions at all times. Furnishings, decorations, combustible objects, or flammables must not block exits, access to exits, or any means of egress. Dispose of all trash as soon as possible in trashcans or dumpsters. Waste materials must never be piled in corridors or stairwells while awaiting removal.
- Flammable and combustible materials should be present in the work area only in the quantities required for the day’s job. These materials must be placed in an approved storage area at the end of each day.
- Materials must not obstruct sprinkler head or be piled around fire extinguishers, fire alarm pull stations, or sprinkler and stand pipe control values. To obtain proper distribution of water from sprinklers, a minimum of 18 inches of clear space is required below sprinkler deflectors.

**Electrical Wiring and Appliances**

- Supervisors should periodically inspect all electrical equipment and cords to ensure proper use and safe conditions. Improper use of electrical devices to obtain more outlet capacity can result in overloaded circuits and fire.
- The use of extension cords should be minimal and used only when a flexible, temporary connection is necessary. The cord and the outlet should be checked periodically to ensure overheating is not occurring. Extension cords cannot be used for fixed wiring, and should never be tacked, stapled, tied, hidden under rugs or draped over pipes or other supports, fastened to or through woodwork, ceilings or walls. When there is a permanent need of an electrical outlet, one should be installed.
- Be sure all electrical equipment is properly grounded. If any evidence is found of frayed, cracked or damaged wiring or electrical outlets, the equipment affected should be taken out of service until repairs are made.
- Space heaters, coffee makers, and all other appliances with exposed heating elements are prohibited. Approved space heaters and other appliances should not be placed under desks or in other enclosed areas. These appliances should be unplugged after each use and stored only after they are cool enough to touch. They should be operated away from combustible materials such as files, curtains, trash containers, etc.

**Fire Safety Inspections and Corrective Actions**

All university buildings are inspected annually by the Fire Marshal to ensure they comply with all applicable State Fire Codes. All fire code deficiencies identified are subsequently noted in a detailed report and forwarded to the responsible VP, Dean, Department Chair or Director and the Arizona State Fire Marshal Office.

**University Departments**

Each department is responsible for correcting code violations that are reported to departmental personnel by the Fire Prevention Office.
Fire Safety Education and Training
Educating and training the university community is a vital component of the fire safety program. This section has been designed to address these issues and should be used as a resource for all employees and students. The goal of the office of fire prevention is to educate and train staff, faculty, residence hall assistants, and student clubs and organizations in the following areas:
1. Fire prevention and safety measures.
2. Proper use of fire equipment.
3. Fire drill and emergency evacuation procedures.
4. Dangers of tampering with safety equipment and failing to respond to safety procedures.
5. Detection and reporting of fire and safety hazards.

Fire Safety Training
- Fire reporting and fire drill evacuation procedures - this type of training is site specific since various buildings have different reporting and evacuation procedures.
- Proper use of fire extinguishers.
- Fire prevention and safety measures. Emergency response - this training is specific to those individuals designated to respond to certain types of emergencies in order to perform specialized functions.

Fire Safety Equipment
Modern office buildings are designed with fire detection and suppression equipments to protect life and property from fire. These fire safety equipments include sprinkler systems, smoke alarms and heat detectors. A major step has been made in the installation of dependable fire safety equipment in NAU buildings. Today, most NAU buildings are sprinkled and equipped with updated fire alarm systems and other alarm monitoring companies.

Fire Alarm Activation Procedure
All employees should be familiar with fire alarm pull station locations in their building. The building’s alarm should be immediately activated in the event of a fire, or if a person smells or sees smoke. Even if the fire is small, the alarm should be activated, because a fire can grow quickly and endanger building occupants. After activating the alarm, get out of the building and call “523-3000 or 911” from a safe location. Provide the Emergency Dispatcher with the name and location of the building, and information about the fire. The NAU Police Dispatcher will notify the City Fire Department. Any attempts to extinguish the fire can be made only after the alarm has been activated, if the fire is small, and if you have been trained by the Fire Prevention Office.

Evacuation
The primary concern in the event of a fire is to evacuate everyone from the building as quickly and safely as possible. In order to accomplish this, occupants must be prepared in advance for a quick and orderly evacuation. Evacuations must be practiced periodically in order to get used to the procedures.

Fire Drills
The Fire Prevention Office conducts fire drills in all university buildings as required by State law. Following each drill, the person in charge of administering the drill must complete a Fire Drill Report.
Emergency Evacuation Procedures
The purpose of the Emergency Evacuation Procedures is to establish minimum requirements that will provide a reasonable degree of life safety from fire and similar emergencies in NAU buildings and structures. The emergency evacuation procedure will be utilized to evacuate all occupants regardless of the type of emergency. Failure to leave the building when a fire evacuation alarm is sounding is a violation of State law.

GENERAL
A fire emergency exists whenever:
- A building fire evacuation alarm is sounding. (Campus buildings will be immediately and totally evacuated whenever the building fire alarm is sounding.)
- There is presence of smoke, or the odor of burning.
- An uncontrolled fire or imminent fire hazard occurs in any building or area of the campus.
- There is a spontaneous or abnormal heating of any material, an uncontrolled release of combustible or toxic gas or other material, or a flammable liquid spill.

When a fire emergency exists, an individual will accomplish, or attempt to accomplish, the following actions:
- Activate fire alarm system located along exit routes.
- Evacuate the building. Do not use elevators.
- Call 523-300 or 911 from a safe area and give name, location, and nature of emergency.
- Remain at a safe location at least 100 feet away from the building until you are told to re-enter by the City Fire Department, University Fire Safety Officer, or other emergency personnel.

EVACUATION PROCEDURES
- When a fire evacuation alarm is sounding, all occupants will:
  - Shut down any experiments or procedures that should not be left unattended.
  - Take or secure all valuables, wallets, purses, keys, etc.
  - Evacuate the building immediately and in an orderly manner. The last occupant to leave a room should close the door leading to the corridor.
  - Never use the elevators. In most university buildings, elevators are automatically recalled to the street floor or transfer level upon the activation of the buildings’ fire alarm system.
  - Proceed to the nearest and safest exit.
  - If possible, assist non-ambulatory occupants to areas of refuge, or to ground level exits. Normally the assistance is in the form of notifying emergency workers of the location of these individuals or by actually providing guidance to safe areas.

Remain at a safe location at least 100 feet away from the building until instructed to re-enter by the City Fire Department, University Police Officer, or other emergency personnel.
Individuals Requiring Assistance

Individuals requiring assistance should proceed to the nearest stairway and request assistance from other evacuees. **Do not obstruct the stairway or door leading to the stairway.** If the location becomes unsafe, move to a different exit stairway and call for help until rescued. It is suggested that people with disabilities prepare for emergencies in advance by learning the locations of exit corridors and exit stairways, areas of safe refuge, emergency communications, by planning an escape route, and by showing a classmate, co-worker, or instructor how to assist him/her in case of an emergency. Individuals with speech impairment should carry a whistle or have other means of attracting attention. All exit corridors and stairways are marked with exit signs and are protected with self-closing fire rated doors. These are the safest areas during an emergency. Rescue personnel will check all exit stairways first for trapped persons.

**Ways to help individuals who require assistance**

1. Become familiar with the individuals who require assistance in your area.
2. Inform hearing impaired/deaf persons when a fire evacuation alarm is sounding.
3. Assist visually impaired/blind persons to an exit stairway.
4. Inform University Police, Command Post outside the building, 523-300 or 911 of disabled persons located inside the building that you are unable to evacuate safely.
5. In the extreme case where you must physically evacuate a disabled person, you should ask that person how to safety carry or assist him/her.

**Fire Drills**

Fire Prevention Office conducts fire drills in all university buildings as required by state law. The primary concern in the event of a fire is to get everyone out of the building as quickly as possible. To do this, occupants must be prepared in advance for a quick and orderly evacuation. A trained group will act more calmly under emergency situations, thereby dispelling panic, which has caused more casualties than fire itself. Slow evacuation and panic account for the large majority of all fatalities in fires.

**Purpose of Fire Drills:**

1. To allow occupants to familiarize themselves with drill procedures, location of fire exits, and the sound of the fire alarm.
2. To allow fire prevention to monitor the timeliness and effectiveness of evacuations.
3. To gauge whether or not persons evacuate the building as legally required.
4. To check if fire protection equipment, such as fire doors, are being used properly.
5. To gauge how long it takes to evacuate each building, and which exits are generally used.

**General Fire Drill Procedures**

1. Fire drills are arranged and supervised by the fire prevention officer with the cooperation of the Police Department.
2. The date and time will be scheduled when most occupants are in the building.
3. Fire Prevention Officer will inform campus police of the exact times the alarm will be pulled for the drill.
4. Fire Prevention Officer will activate the fire alarm.
5. After evacuation occupants shall proceed to a pre-determined location and wait for the instruction of emergency personnel to re-enter.
6. Fire Prevention Officer shall silence and reset the panel when everyone has evacuated the building.
7. Fire drills will be monitored for effectiveness and documented.
8. The building manager shall receive a completed copy of the drill report from the Fire Prevention Officer after the completion of every drill.
9. Fire drills will be held at least: Once quarterly in all residential occupancies - annually in all other buildings.
WHEN THE EVACUATION ALARM SOUNDS, “EVERYONE MUST LEAVE THE BUILDING”

**Fighting Fires and Rescue**
Search and rescue is the responsibility of emergency personnel. If the emergency is fire, and it is small or in its earliest stages and can be fought effectively with the available extinguishers, then only trained persons may attempt to extinguish such fires providing there is no life safety hazard to the user, and such action will not endanger others. The proper selection of a fire extinguisher and knowledge of its operation are critical to containing and extinguishing the fire, and preventing injury to the user. Firefighting procedures for university buildings have been pre-planned by the City Fire Department and the Fire Prevention Officer.

**Means of Egress**
A common causes of fire deaths is blocked exits or exit paths. Blocked exits are probably the most preventable and the one most likely to result in criminal negligence charges. We have a very definite responsibility to provide a safe environment to anyone working, learning or attending events within a building. It is therefore essential that there is access for quick evacuation during an emergency.

The following fire safety requirements must be strictly observed with regard to means of egresses.

**Fire/Smoke Doors**
Two of the most important functions of doors in terms of life safety are to act as a barrier to fire and smoke and to serve as components in a means of egress.
1. Fire and smoke rated doors shall not be blocked open.
2. The self-closing devices shall not be disconnected or rendered inoperable.
3. For special situations that the door must be held open for movement of furniture, equipment or other large size items, the person responsible for the move will provide an individual at the door to ensure the door is not left open, if the building is evacuated.
4. Door chocks or foot stops may not be installed on any fire rated door. Also, furniture, appliances, etc., may not be used to hold the door open.
5. Doors that need to be left open for high traffic areas or for visual security may be authorized by the Fire Prevention Office and an approved magnetic release device shall be installed.
6. Obstructions that will prohibit fire and smoke rated doors from closing and latching without human intervention are not permitted.

**Corridors, Egress Routes and Exit Doors**
In an emergency, one of the most important requirements is to ensure that all occupants can leave the building safely. To accommodate this, corridors, hallways, stairwells and exits are designed and constructed to allow people to leave the building by the safest and quickest method possible.

**Obstructions**
- No corridor, aisle way, stairwells or component of a means of egress may be obstructed.
- Non-combustible furniture in lobbies must not obstruct the minimum width of egress and be arranged so there is a direct path through the lobby to the EXIT.
- Wires, cables or extension cords may not be laid across corridors, aisles or pathways.
- EXIT doors must remain unlocked during hours in which the building is occupied. Special locking devices must be approved by the Fire Marshal's office.
- Furniture, artwork, wall hangings, statues, etc. which protrude from the walls must not obstruct the minimum width, nor present a tripping, injury or other safety hazard.
Items Not Permitted in Corridors, Stairwells and Other Egress Components

1. Flammable storage cabinets of any size.
2. Compressed gas bottles of any size.
3. Carts, cabinets, shelves or other items on which combustibles or flammables are likely to be stored.
4. Chemicals, munitions, pyrotechnics or any other hazardous material.
5. Bicycles, skateboards or other riding equipment.
6. Any item that will impede the normal or emergency flow of traffic, or will obstruct any emergency device.
7. Portable heaters, coffee pots, food warmers, printers, copiers or other devices that may present a hazard.
8. Unprotected high voltage, electrical or gas powered equipment of any sort.
9. Any combustible material and overstuffed furniture, boxes, etc.

Atriums and Large corridors
The open spaces at the base of atriums and large corridors must be left clear at all times. If there is a need to use these open spaces temporarily for any kind of function, it must be done in a way that is not obstructing passage. The Fire Prevention Office must be consulted in advance for proper safety precautions.

Fire Lanes and Emergency Access
In the event a fire should occur, it is critical that emergency responders be able to access the building, or location of the emergency. Fire lanes and emergency access routes have been provided for this purpose.

Fire Lanes (normally marked in red on the curb) may not be blocked at any time. This includes temporary parking for the purpose of "just dropping something off."

Fire hydrants, fire department connections, or other emergency equipment may not be obstructed at any time. Parking is prohibited within fifteen feet of a fire hydrant, or fire department connections.

All vehicles will, when an emergency vehicle approaches from any direction, immediately pull over to the right side of the road to allow the vehicle to pass.
Public Assembly Events
The Fire Prevention Office shall be contacted 30 days prior to the event for review and approval for public assembly events, and events that attract large crowds (See Operation Permit Section).

Definition of Public Assembly
The Fire Safety Code defines public assembly occupancy as follows: Assembly occupancies include, but are not limited to, all buildings or portions of buildings used for gathering together 50 or more persons for such purposes as deliberation, worship, entertainment, eating, drinking, amusement, or awaiting transportation.

Fire Life Safety
Public assembly events involve various risk factors associated with having large numbers of people in one location. The primary risk factors are the high occupant density, and occupants not being familiar with the area. This risk can be reduced through proper event planning and management. Examples of assemblage occupancies found on NAU campuses include large meeting rooms and classrooms, auditoriums with fixed or loose chair seating, multi-purpose rooms, concert halls, theaters, sport arenas, field houses, restaurants, bars, libraries, and outside areas.

In order to comply with the requirements of the Fire Safety Code, it is necessary for the Fire Marshal to make certain approvals for events as noted in these guidelines. Required approvals and inspections should be requested 30 days prior to the event.

Events Coordinator
Persons hosting an event should assign an event coordinator to oversee on-site logistics for indoor and outdoor events.

Indoor Events
The events coordinator must:
1. Become familiar with the location of fire alarms, fire extinguishers, and emergency exits. In the event of an emergency, the coordinator will pull the fire alarm, supervise evacuation of the building, and call 523-3000 or 911 from a safe location.
2. Ensure the maximum allowable occupant load numbers posted inside the assembly area are not exceeded.
3. Ensure exits are unobstructed at all times during the event.
4. Ensure decorations are in accordance with event decorations guidelines.

Outdoor Events
The events coordinator must:
1. Provide a site plan to the Fire Prevention Office indicating locations of activities and equipment, tents and canopies, electrical outlets and cords, propane heaters, booths, etc. to verify that proper clearances and access are maintained.
2. In the event of an emergency, supervise evacuation of the area and call 523-3000 or 911.
3. Provide fire extinguishers throughout the event site. Contact the Fire Prevention Office for the type, quantity, and placement of the fire extinguishers.

Room Capacity
Information on room capacities can be obtained from the Fire Prevention Office. The fire code will determine the size of the occupant load. Be aware that the occupant load is the maximum capacity based on the net clear floor area. Stages and other obstructions, seating arrangements and use of tables will decrease the capacity. The type of event is also a determining factor when planning.
Exit Requirements
The placement of stages, seats, equipment (including wiring), and security arrangements affect exits and access to exits. Exits must remain unobstructed and provide clear access to the outside at all times. Wires or cables cannot be placed in front of exits or on steps, and must be properly taped down to the floor, or covered to avoid tripping hazards.

Outdoor Spaces
Enclosed open areas such as a stadium must meet the same requirements as buildings. Fenced open areas must have at least two exits.

Tents
Tents are considered buildings and must meet most of the same requirements. Tent materials must be properly certified as flame retardant. Some tents have attached labels, but when labels are not attached sponsors, promoters, or other production personnel must have documentation that certifies the tent material is flame retardant. Certification must be based on NFPA 701, Standard Methods of Fire Tests for Flame Propagation of Textiles and Films. Flooring for tents must be non-combustible. Straw, hay, wood chips, mulch, or other similar materials are prohibited from use as flooring. The Fire Prevention Office must approve in advance the use of open flames (including those used for cooking or warming food) and heaters. Tent suppliers must be able to certify that tents have been erected in accordance with manufacturer recommendations, industry standards, and code requirements.

Expositions
Expositions of products or other displays have a number of special requirements. Contact the Fire Prevention Office for consultation and event planning.

Event Decorations
Decorations are common factors in the spread of fire. It is necessary to ensure that all decorations used meet the requirements of safety and fire resistance.

- Decorations cannot conceal or obstruct, in whole or part, exits, exit lights, fire alarm pull boxes, fire hose cabinets, fire extinguishers, sprinkler heads, smoke detectors, or other fire related items.
- All decorations used in corridors, lobbies, assembly rooms; dining rooms, classrooms and offices must be non-combustible or flame retardant.
- If trees or plants (natural or artificial) are used, keep them out of corridors and away from doorways.
- No candles or open flame devices are permitted.
- Do not decorate corridors with wrapping paper.
- Remove all decorations, wrappings and trees immediately after the event

Light Decorations
- Use only electric decorative lights and associated wiring for decorative lights that are UL or FM listed.
- Flame producing devices such as, but not limited to candles, may not be used.
- Mixing and matching lights can create a fire hazard. Keep outside lights outside and inside lights inside.
- Check the light bulbs, sockets, wires and plugs to make sure nothing is cracked, broken or exposed. Discard any defective light strands.
- Keep lights away from flammable and/or combustible materials.
- Extension cords used for temporary decorations must be UL listed.
- Do not connect more than three sets of lights to an extension cord.
- Keep all cords out of high-traffic areas where they could create a tripping hazard.
- Do not run cords through, under or behind a door, furniture or carpet. Such practice could lead to a fire.
- Electrical outlets should not be overloaded
- All lights should be turned off before leaving the building.
Open Burning
Open burning is defined as any open/exposed flame, whether indoors or outdoors, which could cause a potential fire hazard. Examples are bonfires, campfires, leaf burning, artwork involving flames, pyrotechnics of any kind, etc. Open burning on any NAU property must be approved in writing by the Fire Prevention Office.

Open Burning (Indoors)
Open burning indoors (particularly when such burning might activate any type of fire alarm detection/suppression system) is normally prohibited. Special exceptions may be authorized under the following conditions.

- A written request is sent to the Fire Prevention Office at 30 days in advance prior to the event.
- The proposed burning will not endanger the occupants of the facility.

Open Burning (Outdoors)
Open burning outdoors will be authorized under the following conditions.

- A written request is sent to the Fire Prevention Office at least 30 days in advance of the event.
- The proposed burning will not endanger any adjacent building, vehicles or vegetation.
- The burn location will not block access for emergency vehicles to any building, street, or emergency device.
- Open flame fires will not be within fifty feet from any building, vehicle, or vegetation, or twenty five feet from any flammable storage. The distance may vary according to the size of the event.
- The event coordinator will be responsible for providing Fire Guards in the burning area.
- The coordinator will be responsible for complete extinguishing and removal of all materials used in the open burning.
- A thirty (30) minute watch will be made of the area to ensure there is no residual heat left in the material.

Fireworks
Fireworks are strictly prohibited on the NAU Campus.

Bonfires
Bonfires are having a greater number of requirements placed upon them from fire safety and environmental aspects. A permit from the Fire Prevention Office is required for bonfires (See Operation Permit Section).

1. **Prevailing Winds**
   Prevailing winds may not exceed twenty miles per hour (20mph) for at least 30 minutes before the fire is set, or the event must be postponed until such time as the wind velocity has receded to 20mph or less.

2. **Fueling the fire**
The use of gasoline, kerosene, paper products, including but not limited to, cardboard, newspaper, shredded wood packing and popcorn packing insulation is prohibited. Nail-free wooden boards and logs may be used to fuel the bonfire. Such materials may be presoaked using charcoal lighter fluid. In instances where materials contain nails, it will be responsibility of the requestor to thoroughly clear the burn site of nails or other sharp items after use. All spare or unused fuel including but not limited to charcoal lighter fluid, wood, paper, etc., may be stored no closer than fifty feet (50) from the bonfire. The charcoal lighter fluid must be stored in its original container and with its lid maintained in the closed position after each use.
3. **Lighting the Fire**
   Presoak the tip of a 60-inch torch/stick with charcoal lighter fluid to ignite the fire.
   The fire shall be ignited with the wind at one's back. Caution should be exercised if additional liquid
   starter fluid is added to fire following its initial lighting.

4. **Security and Fire Ground Monitors**
   The Requestor will be responsible for providing a minimum of four (4) Fire Brand Monitors. Fire
   Brand Monitors will assist trained personnel with visually monitoring floating firebrands (airborne
   lighted particles) as well as keeping onlookers at a safe distance from the fire. Should a fire erupt
   caused by a firebrand the monitor must not attempt to extinguish the fire but should immediately
   contact Flagstaff Fire Department Personnel.

5. **Extinguishments and Cleanup**
   A minimum 10lb. ABC extinguisher should be available and accessible to control the fire.
   After the fire has been extinguished, hand tools including metal shovels and rakes should be used to
   turn the charred materials while applying copious amounts of water to ensure that the fire has been
   fully extinguished. Securing hand tools and restoring the burn site to its original condition shall be
   responsibility of the Requestor. Charred materials shall be deposited in a 55 gallon open top metal
   drum and fully immersed in water and remain in the drum until properly disposed. Charred materials
   may not be deposited into campus refuge receptacles (dumpsters).

**Storage Fire Safety**
Storage in itself does not constitute a fire hazard. A fire hazard is created when items are stored improperly or
in a hazardous location, or block egress and exits.

**General Storage**
This section pertains to any room or building used for temporary or long-term storage of combustibles.

- Combustible materials must be separated from other hazardous materials such as flammables,
  corrosives, explosives, oxidizers etc.
- Combustible storage is prohibited in all mechanical and electrical rooms, spaces and areas.
- Storage areas must be separated from other areas by a one-hour fire barrier with a fire rated, self-closing
  door, and be protected by fire detection and/or suppression systems.
- Stored materials must be kept at least thirty-six inches from any heat source.
- Storage height shall maintain 18 inches from the sprinkler head or 20 inches from the ceiling in areas
  without sprinkler heads.
- Aisles in storage rooms must have a minimum width of 28 inches to allow for evacuation, and permit
  firefighters to gain access to the most remote area of the room.
- Storage cannot block fire extinguishers, fire alarm pull stations, emergency or exit lighting, access to
  evacuation routes or the exit door, emergency equipment or prevent entry of emergency personnel.
- Storage under stairs is not permitted unless the area is enclosed and protected with a one-hour fire rated
  enclosure and a detection and/or suppression system.
- Doors to storage rooms may not be "propped" open at any time.
- Contact Property Management for proper disposal of surplus, obsolete and unused property.
- Smoking is not permitted in any storage area under any conditions.
**Flammable Storage**
It is critical that flammables are used properly and stored safely.

- Quantities of flammable materials that exceed the permitted amount required approval/permit from the University Fire Prevention Office (See Operation Permit Section).
- Rooms used for flammable storage must be constructed to meet the requirements for one-hour fire rating, ventilation, heating, electrical systems, fire detection and/or suppression systems.
- Flammables are not permitted to be stored in basements of buildings.
- A "daily use" of flammable liquids may be stored on open shelves. “Daily use” refers to a small amount of consumable flammables that are expected to be used in a repetitive nature, and the amount used would not constitute more of a hazard than other ordinary combustibles in the room.
- Flammables, required to be stored away from combustibles, will be stored in an approved flammable storage cabinet. This cabinet will be labeled and incorporate self-closing doors.
- Flammable storage will be kept at least 50 feet from open flames or other heat sources.
- Oily or grease-laden rags must be placed in a self-closing oily rag can for proper cleaning or disposal.
- Ordinary combustibles may not be stored in flammable storage.

**High Stack Storage**
This type of storage has become increasingly popular for space saving purposes for records and commodities. This also presents a different type of hazard for fire safety and fire fighting.

- It is highly recommended that non-combustible materials be used in the construction of storage racks. This reduces the amount of fire spread should a fire occur.
- Under no circumstances may storage of materials be closer than eighteen inches of sprinkler heads.
- Aisle widths in high rack storage, which also requires the use of mechanical devices such as forklifts or carts, must be of sufficient width to allow personnel evacuation if a cart is in the aisle.
- Maximum storage height for standalone pile is 12 feet – Storage over 12 feet requires approval/permit from the University Fire Marshal (See Operation Permit Section).

**Storage of Hazardous Materials**
Hazardous products may produce a substantial amount of toxic vapors, as well as react with a fire to create a fast moving or explosive situation. Storage of such materials must be strictly controlled. Proper storage and handling of these materials will be determined by the Fire Prevention Office (See Operation Permit Section).

- Hazardous materials may not be stored within 50 feet of any open flame or heat source.
- Hazardous materials shall never be stored in an egress corridor.
- Hazardous materials must not obstruct evacuation routes or be stored under stairs.
- Hazardous materials must be stored in separate cabinets or rooms according to their reactive properties.
- Smoking is not permitted within 50 feet of a hazardous materials storage building.
**Electrical Fire Safety**

Electrical fires claim the lives of 200 Americans each year and injure 1,500 more. Some of these fires are caused by electrical system failures and appliance defects, but many are caused by misuse and poor maintenance of electrical appliances, incorrectly installed wiring, overloaded circuits, and improper use of extension cords.

The following are simple steps to take to prevent the loss of life and property resulting from electrical fires.

**Wiring**

In order to prevent high resistance connections, only licensed electricians are permitted to work on electrical wiring or electrical equipment.

**Extension Cords**

Electrical extension cords are an acceptable means of providing TEMPORARY electrical power; however, they cannot be used as a substitute for permanent electrical wiring.

Extension cords can be use provided they are:

1. Used temporarily only.
2. Used for non-heat producing devices.
3. UL approved and Factory Mutual listed, and three-wire grounded cords.
4. Not connected, spliced together, or piggybacked.
5. Visible and protected from damage.
6. Used as temporary wiring for holiday displays, artwork, or vendors at special events provided they meet the above requirements.
7. Plugged into a permanent outlet.
8. Used for applications where equipment is not routinely used.

Extension cords will not be permitted when they are:

1. Used as permanent wiring.
2. Used on heat producing or high voltage devices such as heaters, coffee pots, high wattage lamps, refrigerators, microwave ovens, etc.
3. Present a tripping hazard for normal traffic or emergency evacuation.
4. Run through openings in walls, ceilings, or doorways; or under carpets or flooring.
5. Draped over light or electrical fixtures, ventilation ducts, or pipes.
6. Showing signs of wear, defects, bulging, exposed wire or other damage.
7. Used in corrosive areas or near any substance that would deteriorate the cord.
8. Plugged into a power strip or another extension cord.

**Electrical Panels**

Electrical Panels must:

1. Be accessible to the occupants in an emergency.
2. Not be obstructed for 36 inches in all directions around the panel and in front for access.
3. Have the panel cover and panel door securely in place and closed.
4. Have all breaker and main switches clearly marked as to the equipment area they control.
5. Be identifiable as an electrical panel. Do not cover or paint to match the wall, etc.
Electrical Panels must not:
1. Be locked.
2. Have the breakers taped or otherwise secured in the “on” position.
3. Have any work performed on the panel by anyone who is not a licensed electrician.

Electrical Outlets/Switches
Electrical outlets are quite often not thought of as being a fire hazard. It is possible that an overload on the electrical system can cause an outlet to spark. The following safety requirements must be complied with.

Outlets must:
1. Have the cover plate securely fastened to the outlet box.
2. Be replaced when broken.
3. Have an approved cover.
4. Have a ground fault circuit interrupter if within 6 feet of a water source.
5. Be at least one foot from combustible items such as trashcans, boxes of paper, etc.

Multi-outlet assemblies
Power strips must be properly placed, equipped with fuses or circuit breakers, plugged to a permanent outlet, grounded 3-wire type, and UL approved.

Fire Extinguishers
The Fire Life Safety Department is responsible for the installation, tracking and maintenance of fire extinguishers in all NAU owned buildings. Extinguishers in leased property are the responsibility of the landlord.

The Fire Prevention Office provides hands-on fire extinguisher training when requested.

Fire extinguishers are special pressurized devices that release chemicals or water to aid in putting out a fire. They keep small fires from spreading, assist in fighting fires until the Fire Department arrives, and may help provide an escape route for you.

REMEMBER: A fire extinguisher is no substitute for the Fire Department. Always call the Fire Department first no matter how small you think the fire is.

Rules for Fighting Fires
Fires can be very dangerous and you should always make certain to not endanger yourself or others when attempting to put out a fire. For this reason, when a fire is discovered:
1. Assist any person, who is in any immediate danger to safety, if it can be accomplished without risk to you.
2. Activate the building fire alarm system and notify the fire department by dialing 523-300 or 911. When you activate the building fire alarm system, it will notify other occupants, and it will shut down the air-handling units to prevent the spread of smoke throughout the building.
3. Only after completing the above two, you may use an extinguisher if you are trained and the fire is small.
However, before deciding to fight the fire, keep these rules in mind:

NEVER FIGHT A FIRE IF:

1. **You do not know what is burning and you do not know what type of fire extinguisher to use.**
   Even if you have an ABC extinguisher, there may be something in the fire, which could explode or produce toxic smoke. Chances are you know what is burning, or at least have a pretty good idea, but if you do not know, let the Fire Department handle it.

2. **The fire is spreading rapidly beyond the spot where it is started.** The time to use the fire extinguisher is in the incipient or beginning stages of the fire. If the fire is spreading quickly, it is best to simply evacuate the building, closing windows and doors as you leave.

**How to Use a Fire Extinguisher**

It is easy to remember how to use a fire extinguisher if you can remember the acronym **PASS**, which stands for **PULL, AIM, SQUEEZE, and SWEEP**.

- **Pull** the pin.
  This will allow you to discharge the fire extinguisher.

- **Aim** at the base of the fire.
  If you aim at the flames (which is usually the temptation), the extinguisher agent will fly right through and do no good. You have to hit the fuel.

- **Squeeze** the top handle or lever.
  This depresses a button that releases the pressurized extinguishing agent in the extinguisher.

- **Sweep** from side to side until the fire is completely out.
  Start using the extinguisher from a safe distance away moving forward sweeping the nozzle from side to side. Once the fire is out, keep an eye on the area in case it re-ignites.

**Tampering/Vandalism**

Tampering or vandalizing a fire extinguisher consists of the following:

1. Discharging the extinguisher for any other reason than to extinguish a fire.
2. Relocating an extinguisher without approval.
3. Damaging any part of the extinguisher intentionally or accidentally through carelessness.

**Reporting Damaged or Discharged Extinguisher**

Never put an extinguisher back in its place after use. If an extinguisher is discharged, even for a few seconds or if it is damaged in any way, report the fire extinguisher and its location to the Fire Life Safety Department by calling 3-4227.
Operational Permits

Special events, operations and materials that require Fire Marshal approval and Operational Permit:

- Public Assembly Events
- Temporary membrane structures, tents and canopies
- Open flames or open burning
- Bonfires
- High pile storage
- Storage of chemicals over the exempt amounts or if considered a “Control Area”
- Any condition, operation, or use of materials considered being hazardous, dangerous, or unsafe
- Hot Work Operations
- Stationary lead-acid battery systems
- Cellulose nitrate film
- Cryogenic fluids
- Compressed gases
- Flammable and combustible liquids
- Laboratories, research, and other similar buildings or areas within buildings, must have permits to operate, store, and use hazardous chemicals
- Waste handling

To apply for an Operational Permit - contact the NAU Fire Prevention Office:

Facility Services – Building #77 Rm. 132F
928-523-1873
Jeff.young@nau.edu

Hazardous Materials

The Use, storage and dispensing of Hazardous Materials shall be in accordance but not limited to the following requirements:

Quantities shall be maintained for that necessary for work or research and shall not exceed maximum allowable quantities set forth in the operational permit.

This operational permit shall constitute permission to maintain, store or handle materials; or to conduct processes which produce conditions hazardous to life or property. Such permission shall not be construed as authority to violate, cancel or set aside any of the provisions of this permit or other applicable regulations or laws of the jurisdiction.

Issued permit shall be kept on the premises designed therein at all times and shall be readily available for inspection by the fire code official.

Permits are not transferable and any changes in occupancy, operation, new hazardous materials shall require that a new permit be issued.

Prevention, control and mitigation of dangerous conditions related to storage, dispensing, use and handling of hazardous materials shall be in accordance with the NAU Fire Code. When a material has multiple hazards, all hazards shall be addressed.

General Requirements

Hazardous Materials Management Plan (HMMP) shall include a facility site plan designating the following:

1. Storage and use Areas.
2. Maximum amount of each material stored or used in each area.
3. Range of container sizes.
4. Location of emergency isolation and mitigation valves and devices.
5. Product conveying piping containing liquids or gases other than utility fuel gases.
6. On and off positions of valves for valves that are of the self-indicating type.
7. Storage plan showing the intended storage arrangement, including the location and dimension of aisles.
8. The location and type of emergency equipment.

Hazardous Material Inventory Statement (HMIS) shall include the following:

1. Manufacturer’s name.
3. NFPA hazardous material label identification.
4. Maximum quantity stored or on-site at one time
5. Storage conditions related to the storage type, temperature and pressure.

<table>
<thead>
<tr>
<th>REQUIRED PERMIT AMOUNT FOR HAZARDOUS MATERIALS</th>
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<tbody>
<tr>
<td>Type of Material</td>
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<tr>
<td>Combustible Liquids</td>
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<td>Corrosive Materials</td>
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<td>Gases</td>
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<td>Solids</td>
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<td>Flammable Materials</td>
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<td>Highly Toxic materials</td>
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<td>Organic Peroxides</td>
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<td>Pyrophoric Materials</td>
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<td>Unstable(reactive)Reactive materials</td>
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<td>Water Reactive Materials</td>
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<tr>
<td>Compressed Gases</td>
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<tr>
<td>Cryogenic Fluids</td>
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Permits required by this plan shall be obtained from the Fire Prevention Office. Issued permits shall be kept on the premises designated therein at all times and shall be readily available for inspection.