



Construction fire safety stipulations

Approved stamped drawings

Approved and signed sets of plans and associated permits must always be on site with hard or electronic copies.

Fire Safety and Prevention construction permitting requirements

Environmental Health and Safety Fire Safety and Prevention provides construction permits for the following systems or operations as part of projects:

- Automatic fire extinguishing systems.
- Battery systems.
- Capacitor energy storage systems.
- Compressed gases.
- Cryogenic fluids.
- Emergency responder radio coverage system.
- Fire alarm and detection systems and related equipment.
- Fire pumps and related equipment.
- Flammable and combustible liquids.
- Fuel cell power systems.
- Gas detection systems.
- Gates and barricades across fire apparatus access roads.
- Hazardous materials.
- High-piled combustible storage.
- Industrial ovens.
- LP gas.
- Motor vehicle repair rooms and booths.
- Plant extraction systems.
- Private fire hydrants.
- Smoke control or smoke exhaust systems.
- Solar photovoltaic power systems.
- Special event structure.
- Spraying or dipping.
- Standpipe systems.
- Temporary membrane structures.
- Tents.



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Automated external defibrillators

Projects with an estimated cost exceeding \$250,000, based on the construction permit application under [Arizona Revised Statute 34-401](#), require a building to be equipped with at least one automatic external defibrillator.

The ASU project manager must [contact ASU Employee Health](#) within 30 days of issuance of this construction permit to plan arrangements and determine the specific location and quantities of AEDs for the project.

Codes and standards

Applicable codes and standards for this project must be the International Building Code and the International Fire Code 2018 edition, NFPA editions, and any other currently referenced codes listed in the IFC.

Combustible waste materials

Demolition and construction operations: Waste disposal and combustible debris shall not accumulate within buildings. Combustible debris, rubbish and waste materials must be removed from the building at the end of each work shift. Demolition and construction materials will not be allowed to accumulate in paths of egress.

Contractor requirements

This review does not relinquish the contractor from adhering to all applicable codes and standards for this project, including but not limited to:

- ASU design guidelines.
- International Building Code, 2018 edition.
- International Fire Code, 2018 edition.
- NFPA standards.

Crane rigging and lift permit application process

[Email the Crane Rigging and Lift Permit application to EHS](#) at least two weeks before the scheduled lift date. Cranes within the job fence line with booms not extending into other building areas are not required to have a permit. This would be covered under the general building permit. This applies to new construction, complete building or major renovations.



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Deferred submittals

Deferred submittals are required for all fire and life safety systems and include, but are not limited to:

- Automatic sprinkler systems.
- Emergency responder radio coverage.
- Fire alarm systems.
- Fire hydrants.
- Fire pumps.
- Gas detection systems.
- Smoke control systems.

Send deferred submittals to [Fire Safety and Prevention](#) with an [ASU Fire Marshal Plans Permit application](#).

Note: EHS Fire Safety and Prevention has a 10-business-day turnaround on deferred submittal reviews.

Exits

All exits must comply with the code requirements outlined in the International Fire Code, International Building Code and all applicable NFPA codes and standards. Exits should be clear and accessible at all times and meet travel distance requirements.

Exit signs and emergency lighting

All exit signs installed or relocated during any new construction or renovation work must be visually inspected by EHS Fire Safety and Prevention and the Building Officials Office for adequate coverage and visibility. Any required egress lighting, including exit signs and emergency lighting, will be inspected and approved on-site for adequate coverage.

Fire apparatus access roads and fire department equipment

Equipment or personnel shall not obstruct, block or hinder access to fire apparatus access roads, commonly referred to as fire lanes or fire department equipment, such as fire department connections, KnoxBoxes, fire hydrants, etc.



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Hot work operation

A separate hot work permit will be required for the following:

- Application of roof coverings with the use of an open-flame device.
- Public exhibitions and demonstrations where hot work is conducted.
- Use of portable hot work equipment inside a structure.

A hot work permit is required for operations, including:

- Brazing.
- Cutting.
- Grinding.
- Installation of torch-applied roof systems.
- Soldering.
- Thawing pipe.
- Thermal spraying.
- Thermit welding.
- Welding.

Permits are required for other similar activities not mentioned above.

Maximum allowable quantities per control areas and hazardous materials inventory statement

Any increase in chemical or hazardous materials for projects must be evaluated to ensure control area thresholds are not exceeded. The project team is responsible for gathering data on the entire control area.

Note: Generally, buildings are established with one control area per floor.

Means of egress — pathways and accesses

All internal or external exit pathways and accesses must remain clear of obstructions during and after the construction or renovation. Situations, where a path of egress should be compromised during a project will be addressed on a case-by-case basis by EHS Fire Safety and Prevention before conducting the operation.



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Portable fire extinguishers

Portable fire extinguishers must be required on the construction, demolition or alteration site of any building. They shall be serviced and maintained within the previous 12 months. Quantities, type and spacing should [follow the International Fire Code, 2018 Edition, Chapter 9: Fire Protection Systems](#), and the [National Fire Protection Association, NFPA 10, Section 906 and Standard for Portable Fire Extinguishers, 2018 edition](#).

Qualified electrical personnel

All qualified electrical personnel involved in this project are responsible for meeting the [National Fire Protection Association, NFPA 70, 2017 edition](#) requirements, which relate to load calculations of new installations or existing circuits proposed to introduce new loads.

Addendums, change orders and revisions

All deviations from approved plans must be submitted through [Construction Support Services](#) to have the appropriate revision, addendum, etc., issued as part of the permitting process.

Utility shutdown

To request a utility shutdown for this project, contact 480-965-3633 or [visit the Facilities Development and Management service request](#).