

# Neshaten Physical Education Center

A physical education center is a common building found throughout the [Kingdom of Neshaten](#), from sporting complexes to schools although this particular one is for schools; its purpose is to be a place where students can train physically or play sports in the safety of a building during bad weather. Because of its commonplace usage, its been around since before the Era of Restart

## Design

The PEC is a structure designed in two different styles, either as a decagon or as a heptagon, the building is two stories tall although this mainly comes from the bleachers that allow for students to sit and watch sporting events that go on. The large size means that multiple classes can take PE together, although it also means that tournaments of various sports can be held together, as the center can be split up into three sections to allow for up to three separate sports to be played simultaneously.

Triple panned glass makes up the ceiling which allows for outside light to filter into the structure, such as moonlight. There are a number of much smaller rooms in the structure which can double as extra classrooms for a school, along with a number of storage areas. There is also an armoury used by the school to store weaponry that can be accessed during a time of emergency, this armoury is the most reinforced area of the restructure and is located underground, which in turn means it can serve as a shelter during wind-strikes or other disasters.

## Civilian Emergency Systems

The room is equipped with a number of emergency systems, including fire suppression, CO2 monitors, gas and other sensors to help protect whomever is using the room from potential harm. These systems are linked to a schools main office so that they can be easily monitored and responded to.

### Fire Systems

Internal fire suppression systems utilize a specialized kind of foam that is an all in one, the kind of foam used is designed to smother gas, liquid, electrical and chemical fires.

### Co2 Systems

Designed to detect the presence of Carbon dioxide through the use [NDIR](#).

## Gas Detectors

Designed to detect gas emissions from the natural gas, the gas is also mixed in with a chemical agent that reacts to a person's sense of smell so that they can more easily detect its presence.

## Groundquake Sensors

A specialized sensor designed to monitor the movement around it, the sensor is smart enough to tell the difference between regular - everyday movement such as that from people and from more irregular movement such as that which comes from ground quakes. These sensors are interconnected with a central monitoring station located somewhere near a school, this means that if the outside sensors pick on the movement 'first', then the sensors inside of the building will emit an emergency signal alerting individuals of an approaching quake.

## Other sensors

There are other sensors found within the CES which are designed to serve functions different from those listed above, they are more wide-range systems designed for multiple roles such as measuring air and wind pressure, rain water, along with the electrical current in the air which can sometimes predict whether a lightning strike might occur.

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