

# Hazardous (Classified) Locations

WAC 296-863-500

## Summary

### YOUR RESPONSIBILITY:

#### To use PITs safely in hazardous (classified) locations

#### You must

Use the appropriate approved PITs in hazardous (classified) locations

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# Hazardous (Classified) Locations

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## Rule

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### Use the appropriate PITs in hazardous (classified) locations

#### You must

- Make sure PITS are used in hazardous (classified) locations as follows:
  - PITS authorized to be used in Class 1 locations are shown in Table 1, Approved PIT Use in Class 1 Locations.
  - PITS authorized to be used in Class 2 locations are shown in Table 2, Approved PIT Use in Class 2 Locations.
  - PITS authorized to be used in Class 3 locations are shown in Table 3, Approved PIT Use in Class 3 Locations.
- PITS authorized to be used in unclassified locations are:
  - Approved PITS designated as Type D, E, G, or LP**and**
  - PITS that meet the requirements of a Type D, E, G, or LP PIT.



#### Definitions:

- An **unclassified location** is an area that's not designated as a Class 1, 2, or 3 location.
- **Designations** means a code used to show the different types of hazardous (classified) locations where PITs can be safely used:
  - **D** refers to trucks that are diesel engine powered that have minimum safeguards against inherent fire hazards.
  - **DS** refers to diesel powered trucks that, in addition to meeting all the requirements for type D trucks, are provided with additional safeguards to the exhaust, fuel and electrical systems.

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- **DY** refers to diesel powered trucks that have all the safeguards of the DS trucks and, in addition, any electrical equipment is completely enclosed. They are equipped with temperature limitation features.
- **E** refers to electrically powered trucks that have minimum acceptable safeguards against inherent fire hazards.
- **ES** refers to electrically powered trucks that, in addition to all of the requirements for the E trucks, have additional safeguards to the electrical system to prevent emission of hazardous sparks and to limit surface temperatures.
- **EE** refers to electrically powered trucks that have, in addition to all of the requirements for the E and ES type trucks, have their electric motors and all other electrical equipment completely enclosed.
- **EX** refers to electrically powered trucks that differ from E, ES, or EE type trucks in that the electrical fittings and equipment are designed, constructed and assembled to be used in atmospheres containing flammable vapors or dusts.
- **G** refers to gasoline powered trucks that have minimum acceptable safeguards against inherent fire hazards.
- **GS** refers to gasoline powered trucks that are provided with additional exhaust, fuel, and electrical systems safeguards.
- **LP** refers to liquefied petroleum gas-powered trucks that, in addition to meeting all the requirements for type G trucks, have minimum acceptable safeguards against inherent fire hazards.
- **LPS** refers to liquefied petroleum gas-powered trucks that in addition to meeting the requirements for LP type trucks, have additional exhaust, fuel, and electrical systems safeguards.

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**Note:**

- Tables 1, 2, and 3 show the type of approved PITs that can be used in the appropriate divisions and groups.
- PITS can't be used in divisions and groups that don't have a PIT designation listed.
- Approved PITs will be marked or labeled with the designation of the PIT. See WAC 296-863-20010, Make sure PITs are properly labeled.

**Table 1  
Approved PIT Use in Class 1 Locations**

Class 1							
Locations in which flammable gases or vapors are, or may be, present in the air in quantities sufficient to produce explosive or ignitable mixtures							
Division 1				Division 2			
Conditions exist continuously, intermittently, or periodically under normal operating conditions.				Conditions may occur accidentally, for example, due to a puncture of a storage drum.			
Group A	Group B	Group C	Group D	Group A	Group B	Group C	Group D
Acetylene	Hydrogen	Ethyl ether	Acetone Alcohols Benzene Gasoline Lacquer Solvent	Acetylene	Hydrogen	Ethyl ether	Acetone Alcohols Benzene Gasoline Lacquer Solvent
No PIT type can be used	No PIT type can be used	No PIT type can be used	Use this PIT type: <b>EX</b>	No PIT type can be used	No PIT type can be used	No PIT type can be used	Use this PIT type: <b>DS</b> <b>DY</b> <b>ES</b> <b>EE</b> <b>EX</b> <b>GS</b> <b>LPS</b>

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**Table 2**  
**Approved PIT Use in Class 2 Locations**

<b>Class 2</b>					
Locations which are hazardous because of the presence of combustible dust					
<b>Division 1</b> Explosive mixture may be present under normal operating conditions, or where failure of equipment may cause the condition to exist simultaneously with arcing or sparking of electrical equipment, or where dusts of an electrically conducting nature may be present.			<b>Division 2</b> Explosive mixture not normally present, but where deposits of dust may cause heat rise in electrical equipment, or where such deposits may be ignited by arcs or sparks from electrical equipment.		
<b>Group E</b>	<b>Group F</b>	<b>Group G</b>	<b>Group E</b>	<b>Group F</b>	<b>Group G</b>
Metal dust	Carbon black Coal dust Coke dust	Grain dust Flour dust Starch dust Organic dust	Metal dust	Carbon black Coal dust Coke dust	Grain dust Flour dust Starch dust Organic dust
No PIT type can be used	Use this PIT type: <b>EX</b>	Use this PIT type: <b>EX</b>	No PIT type can be used	Use this PIT type: <b>EX</b> <b>DY</b> <b>EE</b>	Use this PIT type: <b>DS</b> <b>DY</b> <b>ES</b> <b>EE</b> <b>EX</b> <b>GS</b> <b>LPS</b>

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**Table 3**  
**Approved PIT Use in Class 3 Locations**

<b>Class 3</b>	
Locations where easily ignitable fibers or flyings are present but not likely to be in suspension in quantities sufficient to produce ignitable mixtures	
<b>Division 1</b>	<b>Division 2</b>
Locations in which easily ignitable fibers or materials producing combustible flyings are handled, manufactured, or used.	Locations in which easily ignitable fibers are stored or handled (except in the process of manufacture).
Use this PIT type:	Use this PIT type:
<b>DY</b>	<b>DS</b>
<b>EE</b>	<b>DY</b>
<b>EX</b>	<b>E</b>
	<b>ES</b>
	<b>EE</b>
	<b>EX</b>
	<b>GS</b>
	<b>LPS</b>

