

Confined Space Entry (CSE)



Confined space entry in Minnesota

- 29 CFR 1910.146 applies in general industry
- Minnesota Rules 5207.0300 through .0304 in construction
- **Both** regulate workspaces regarding:
 - dangerous air contamination;
 - oxygen deficiency/enrichment; and
 - engulfment
- **Both** identify classes of entry spaces

Definition comparison

1910.146	5207
1. Large enough to bodily enter	1. Large enough to enter
2. Limited means of access or egress	2. Limited access and egress
3. Not designed for continuous human occupancy	
And one of the following:	And one or more of the following:
1. an actual or potential hazardous atmosphere;	1. dangerous air contamination, O ₂ deficiency or enrichment;
2. a material with the potential to engulf an entrant;	2. engulfment conditions; or
3. an internal configuration such that an entrant could be trapped or asphyxiated; or	3. any other recognized serious hazard
4. any other recognized serious safety or health hazard	

Types of spaces

1910.146 (general industry)	5207 (construction)
Nonpermit	Class I – confined spaces where dangerous air contamination is unlikely to develop
Permit	Class II – confined spaces where dangerous air contamination has been verified
	Class III – confined spaces where dangerous air contamination cannot be verified

Toxic contaminants

- Carbon monoxide
- Carbon dioxide
- Methane
- Hydrogen sulfide
- Ammonia
- Nitrogen (used for inerting)



Minnesota Rules about CSE

- 5207.0300 – Scope
- 5207.0301 – Definitions
- 5207.0302 – Operating procedures and worker training
 - Entry permit
 - Operating procedures
 - Worker training

5207.0303 – Pre-entry procedures

- Disconnection of lines
- Calibration of testing equipment
- Air testing
- Injurious corrosive substances
- Interconnected spaces
- Ventilation
- Ignition sources
- Oxygen consuming equipment
- Oxygen enrichment condition
- No smoking
- Automatic fire protection systems

5207.0304 – Entry into and work within confined spaces

- Specific requirements for the different classes of confined space
 - Class I
 - Dangerous air contamination unlikely to develop
 - Class II
 - Dangerous air contamination has been verified
 - Class III
 - Dangerous air contamination cannot be verified

Other standards that apply to confined spaces

- 1926.21(6) – Instructed in precautions to take; protective and rescue equipment
- Subpart J – Welding and cutting
- Subpart P – Excavations
- Subpart S – Underground construction, caissons, cofferdams and compressed air
- Subpart Y – Diving

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