

Underground Construction Checklist

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Underground Construction including tunnels, shafts, chambers, passageways, etc...

Access and egress:

- ☐ Protected from excavators, haulage machines, trains, and other equipment
- ☐ Prevent unauthorized entry with barricades and "Keep Out" signs
- ☐ Check in/check out procedure for head count
- ☐ Record of employee location kept on the surface
- ☐ Workers aware of emergency procedures
- ☐ Power communication system if voice communication ineffective

Emergency:

- ☐ Hoist can work during power failure
- ☐ Self-rescuers provided where workers might be trapped by smoke or gas
- ☐ One above-ground employee to get help and keep head count
- ☐ Hand lamp or cap lamp for each employee
- ☐ Rescue teams available
- ☐ When dangerous gasses present, post notices at all entrances
- ☐ Keep record of air quality



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Ventilation:

- ☐ Hoist can work during power failure
- ☐ Reversible air flow
- ☐ Ventilation doors closed when in use
- ☐ Dust control measures for drilling rock or concrete (wet drilling, vacuum collectors, water mix spray systems)
- ☐ No internal combustion engines underground

Fire:

- ☐ No open flames except for welding, cutting, and other hot work
- ☐ "No Smoking" signs in explosive hazard areas
- ☐ Store no more than 24-hour supply of diesel fuel underground
- ☐ Piping diesel fuel from surface only if surface tank has max capacity of 24 hour supply
- ☐ storing oil, grease, and diesel fuel
 - tightly sealed containers 300 feet from explosive magazines
 - dike or position so that overturned containers will not flow from storage area
- ☐ No flammables stored on surface within 100 feet of opening
- ☐ Fire extinguisher at head pulley and tail pulley of underground conveyors