



National
Operational
Guidance

Control measure

Safe system of work: Unstable or collapsed excavations



NFCC
National Fire
Chiefs Council

Developed and maintained by the NFCC



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Control measure knowledge

An incident involving an unstable or collapsed excavation may require:

- Shoring
- Removal of fallen or collapsed materials
- Isolation of machinery or vehicles
- Relocation of loads, such as vehicles, machinery or building materials
- Reducing movement in the hazard area
- Appropriate location of fire and rescue service vehicles, equipment and personnel

An unstable or collapsed excavation should be assessed at the earliest opportunity. Although the initial assessment can be carried out by first responders, it may be necessary to seek specialist advice.

Specialist advice may be available from a competent person, structural engineer or tactical adviser and should be sought prior to committing personnel to the hazard area.

If personnel need to enter an unstable or collapsed excavation where the excavation support system has been compromised, it will be essential to consult with the responsible person or competent person to determine a safe system of work. This could be the contractor or a civil engineer.

The minimum number of personnel should be committed to the hazard area, especially if the assessment or monitoring indicates the potential for further collapse. There should also be emergency procedures in place, which can be initiated if required.

Strategic actions

Fire and rescue services should:

- Establish arrangements with appropriate agencies to provide specialist advice, assessment and monitoring of excavations
- Ensure personnel are aware of local or national arrangements and the specialist advice available for excavations

Tactical actions

Incident commanders should:

- Avoid applying additional loads to the excavation, such as fire and rescue service vehicles, equipment and personnel
- Consider requesting specialist advice regarding unstable and collapsed excavations
- Identify the type of material being excavated and the height and angle of the excavated face
- Have emergency procedures in place for unstable or collapsed excavations
- Ensure that minimum numbers of personnel work in the hazard area
- Assess and continuously monitor the excavation for indications of further collapse
- Liaise with the responsible person or competent person if required