



# Critical Risk

# What is Critical Risk Management (CRM)

CRM is a process of reducing the risk of fatalities or life-altering injuries by ensuring critical controls are in place and effective.



The focus is solely around risks that can alter or end the life of one of our coworkers.

# Critical Risk Areas

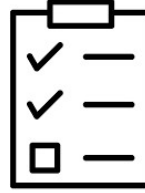
Southern Company has recognized 10 critical risks areas and has identified controls for those risk areas. The 10 risk areas are:



# Critical Risk Management (CRM) Approach

Includes:

- identifying critical risk tasks
- identifying the critical controls
- monitoring the critical controls to ensure they are providing in practice what they are assumed to provide.

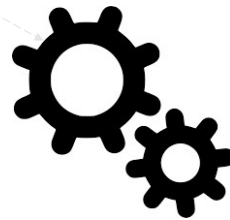
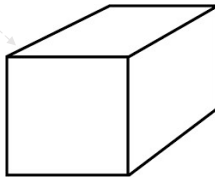


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# What is a Control?

A **control** is an

act, object (engineered) or system (combination of act and object)



intended to prevent or mitigate an unwanted event.

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Two types of controls:

**Preventative control**: A control that reduces the likelihood of an unwanted event occurring.

**Mitigating control**: A control that eliminates or reduces the consequences of the unwanted event.

## What is a Critical Control?

A critical control is a control that is crucial to preventing or mitigating the consequences of a fatality or life-altering event. The absence or failure of a critical control would significantly increase the risk despite the existence of the other controls.



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In addition, a control that prevents more than one unwanted event or mitigates more than one consequence is normally classified as critical.

## Critical Risk Management

For every critical risk, there must be a control in place. As you increase controls, you decrease the risk.



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When controls increase, risk decreases

# GET STARTED

## KNOW YOUR CRITICAL RISKS



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## KNOW YOUR CONTROLS



## Arc Flash / Electrical Contact

- ✓ Appropriately-rated arc flash and/or electrically tested personal protective equipment (PPE) (FR clothing)
- ✓ Rubber gloves
- ✓ Protective cover up
- ✓ Insulated tools
- ✓ Proper grounding
- ✓ Utilize breaker maintenance switches
- ✓ Utilize remote racking devices
- ✓ Proper minimum approach distance



These are common controls for this risk area. Specific controls will need to be evaluated for each critical risk task.

## Collision / Loss of Control

- ✓ Use seat belts
- ✓ Safety circle walk
- ✓ Eliminate distractions (i.e. cell phones)
- ✓ Obey traffic laws



These are common controls for this risk area. Specific controls will need to be evaluated for each critical risk task.

## Confined Space

- ✓ Rescue Plan and rescue equipment in place.
- ✓ Permit/reclassification requirements met and maintained
- ✓ Evacuate if any unplanned conditions arise



These are common controls for this risk area. Specific controls will need to be evaluated for each critical risk task.

## Fall or Fall Arrest

- ✓ Approved fall protection system
- ✓ 100% tie-off to an appropriately-rated anchor point for > 4ft
- ✓ Rescue Plan and rescue equipment in place
- ✓ Properly guarded/protected open holes
- ✓ Inspection of fall protection equipment
- ✓ 3-point contact (ladders)
- ✓ Proper ladder selection
- ✓ Proper footwear



These are common controls for this risk area. Specific controls will need to be evaluated for each critical risk task.

## Fire or Explosion

- ✓ Proper PPE and non-sparking tools
- ✓ Fire extinguishing equipment available
- ✓ Hot work permit
- ✓ Housekeeping (free of combustibles)
- ✓ Proper storage of flammables and combustibles
- ✓ Follow the SDS (chemicals)
- ✓ Gas detection method



These are common controls for this risk area. Specific controls will need to be evaluated for each critical risk task.

## Hoisted Loads

- ✓ Rigging components, crane/lifting device and anchor points are rated to withstand the capacity of the load and used within the manufacturer's specifications.
- ✓ Qualified persons are present and knowledgeable of lift activities.
- ✓ Load, hooks, and attachment devices controlled/protected until free from obstructions.
- ✓ Adhere to the lift plan
- ✓ Never stand/walk under a hoisted load



These are common controls for this risk area. Specific controls will need to be evaluated for each critical risk task.

## Line of Fire

- ✓ Erect and maintain barricades
- ✓ Do not bypass proper machine/tool guarding
- ✓ Obey posted signage and barricades
- ✓ Never stand/walk under a hoisted load
- ✓ Communicate hazards to protect others
- ✓ Use proper body positioning to avoid line-of-fire injuries
- ✓ Verify the absence of hazardous energy before work begins



These are common controls for this risk area. Specific controls will need to be evaluated for each critical risk task.

## Mobile Equipment

- ✓ Ensure equipment operators are aware of and acknowledge presence before approaching equipment
- ✓ Traffic plans, buffer zones (work zone)
- ✓ Safety circle walk
- ✓ Only trained and/or qualified operators
- ✓ Seat belts



These are common controls for this risk area. Specific controls will need to be evaluated for each critical risk task.



## Release or Exposure to Heat / Energy / Chemicals

- ✓ Communication with designated operating areas (i.e. 3-part communication)
- ✓ Temporary protective grounds
- ✓ Use proper LOTO to isolate, secure, and de-energize
- ✓ Verify the absence of hazardous energy
- ✓ Follow SDS requirements (chemicals)
- ✓ Equipment inspection (Hydraulic/air hoses)
- ✓ Worker positioning



These are common controls for this risk area. Specific controls will need to be evaluated for each critical risk task.

## Trenching and Excavation

- ✓ Excavations > 5 ft deep protected (shored, sloped, or benched)
- ✓ Proper barricades in place
- ✓ Utility location prior to beginning excavation
- ✓ Soil classification by a competent person
- ✓ Proper/adequate egress maintained
- ✓ Rescue provisions in place



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