

Scaffold Access and Egress Safety

Safe access and egress are critical aspects of scaffold safety in NCC T&D's electrical construction and maintenance activities. Proper access methods prevent accidents and ensure efficient work at substations and transmission facilities.

Common Scaffold Types in NCC T&D Projects

Modular System Scaffolds

- Most common in Saudi construction
- Versatile for substation construction
- Easy to assemble and modify
- Suitable for high-temperature conditions

H-Frame Scaffolds (Façade Scaffolds)

- Widely used for building maintenance
- Common in industrial facilities
- Suitable for straight wall work
- Popular in Saudi construction sites

Mobile Tower Scaffolds

- Frequently used in substations
- Ideal for short-duration tasks
- Easy to relocate
- Common for maintenance work

Access Requirements by Scaffold Type

Supported Scaffolds:

- Access via ladders, stairs, or ramps only
- Frame climbing strictly prohibited
- Minimum 900mm ladder extension above platform
- Rest platforms every 9 meters for attached ladders
- Three-point contact maintained while climbing

Mobile Scaffolds:

- Wheels must be locked before access
- Access only when scaffold is stationary
- Proper stabilizers must be deployed
- Clear access path maintained
- Regular brake inspection required

Suspended Scaffolds:

- Preferably accessed from ground or roof
- Secondary safety systems required
- Clear emergency procedures established
- Regular inspection of suspension points
- Proper fall protection mandatory

Worker Responsibilities

Workers must:

- Inspect access equipment before use
- Maintain three-point contact during climbing
- Never carry materials while climbing
- Report access/egress hazards immediately
- Keep access points clear of obstacles

- Use only designated access points
- Follow proper fall protection procedures

Safety Requirements

Access Equipment Must Have:

- Proper guardrails and handrails
- Non-slip surfaces
- Adequate lighting
- Clear signage
- Regular maintenance
- Proper anchorage points
- Weather protection where needed

Additional Considerations for NCC T&D Projects

Given our project site environment:

- Special grounding requirements
- Clearance from energized equipment
- Non-conductive materials where required
- Emergency evacuation procedures
- Weather monitoring systems
- Lightning protection measures

Inspection Requirements

Daily checks of:

- Access points and egress routes
- Ladder conditions
- Platform stability
- Guardrail security
- Wheel locks (mobile scaffolds)
- Weather conditions
- Surface conditions

Key Takeaways

- Use only designated access points
- Maintain proper inspection protocols
- Keep access routes clear
- Lock mobile scaffold wheels
- Follow three-point contact rule
- Report hazards immediately
- Regular maintenance is crucial

For more information, refer to NCC T&D's relevant IMS procedures or consult our HSE Department for expert guidance and training resources.

