

Work scope details:

Title: BL14B Computer Rack Removal

Work Scope Summary: - The task involves the removal of a computer rack from location BL14B and its relocation to the southside laydown area of building 8700.

Key Work Scope Components: - Removal of the computer rack from BL14B - Transportation of the computer rack - Relocation to the southside laydown area of building 8700

Relevant previous events and lessons learned:

Event Title	Event Summary	Lessons Learned	Reference Link
Remove Components from Computer Server Racks Prior to Movement	Workers were moving computer server racks fully loaded with internal components weighing approximately 1000 lbs. The racks veered toward a door, and a worker's hand was pinned, resulting in an OSHA recordable injury.	Removing all internal server components from server racks prior to movement reduces the overall weight, making it easier to move and reducing the risk of injury.	Link

Missing Hazards:

Hazard	Missing or Inadequate Mitigation in Current Work Control Document	Recommended Mitigation for Revision	Reference link	SBMS Link
Ergonomic Conditions	No specific mention of ergonomic assessments or interventions	Conduct ergonomic assessments, provide special tools, stretch breaks, and worker rotation	N/A	Link
Traffic and Environmental Hazards	No mention of traffic and environmental hazard controls	Implement traffic control measures, provide training for low visibility conditions, and ensure proper equipment	Traffic Safety Warehouse	Link
Loaded Computer Racks	No mention of computer rack safety	Conduct safety compliance reviews for racking systems and ensure proper load management	OSHA	Link
Improper Use of Equipment	No specific guidelines for improper equipment use	Develop guidelines for equipment use, ensure training and compliance with safety standards	Playground Professionals	Link

Failure mode analysis:

Current control	Failure mode of the control	Effect of Failure	Cause of Failure	Recommended action
Written permits for the work activity	Permit not obtained or expired	Legal non-compliance, work stoppage	Oversight, lack of communication	Implement a permit tracking system, regular audits
Personal Protective Equipment (PPE)	PPE not used or inadequate	Injury to personnel	Lack of awareness, insufficient supply	Conduct PPE training, ensure adequate supply and accessibility
Work instructions & safety procedures	Instructions not followed	Increased risk of accidents	Inadequate training, unclear instructions	Regular training sessions, simplify and clarify instructions
ORNL subject area requirements	Non-compliance with specific requirements	Safety hazards, regulatory issues	Lack of understanding, oversight	Regular compliance checks, detailed requirement briefings
Discuss group/individual responsibilities	Miscommunication of roles	Task inefficiency, increased risk of errors	Poor communication, unclear roles	Pre-job briefings, clear role assignments
Availability/location of materials, tools	Tools/materials not available or misplaced	Delays, potential safety hazards	Poor inventory management	Implement inventory management system, pre-checks
Response if work cannot be performed as planned	Inadequate contingency planning	Delays, increased risk of accidents	Lack of contingency planning	Develop and communicate contingency plans
Potential error traps (e.g., time pressures, distractive environment)	Unidentified error traps	Increased likelihood of errors	Inadequate risk assessment	Conduct thorough risk assessments, implement mitigation strategies
Stop Work: Unsafe act or condition	Failure to stop work when unsafe	Accidents, injuries	Lack of empowerment, unclear criteria	Empower workers to stop work, clear stop-work criteria
Emergency Response: Egress paths	Inadequate emergency response plan	Increased risk during emergencies	Poor planning, lack of drills	Regular emergency drills, clear egress path markings
Hoisting and Rigging services	Improper use or failure of equipment	Equipment damage, injury	Inadequate training, equipment failure	Regular equipment maintenance, certified operator training

Ergonomic Conditions	Poor ergonomic practices	Musculoskeletal injuries	Lack of ergonomic assessment	Conduct ergonomic assessments, provide ergonomic training
Manual Material Handling	Improper handling techniques	Injury, equipment damage	Lack of training, inadequate equipment	Provide handling aids, conduct training sessions