

Electrical Task Analysis Document

Material Handling



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What is this document for?

This document contains task-specific conditions and recommendations compiled from onsite observations and interviews with electrical workers and industry practitioners. It addresses safety and health hazards as well as production challenges associated with the task. This document can be used for training, hazard analysis, and pre-task planning. This information was gathered from the construction of a data center.

Task Description:



Material Handling involves lifting, pushing, pulling, and moving materials around a jobsite. This is done either manually or using mechanical aids such as pallet jacks and forklifts.


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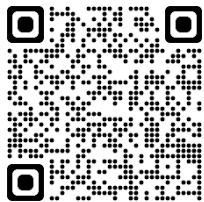
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CONDITIONS	RECOMMENDATIONS
<p>Manually handling heavy wire spools: Pushing, pulling, and lifting heavy wire spools by hand or with a manual pallet jack can raise the risk of ergonomic injuries.</p> 	<ul style="list-style-type: none"> • Use powered material handling equipment (e.g., electric pallet jack, forklift) • Use a two-person approach to lifting and carrying material • Use back support brace as last resort • Best Built Plans for safe material handling • Cable reel transporter system • Powered hand trucks • Self-propelled platform truck
<p>Maneuvering on temporary surface protection boards: Surface protection boards (e.g., Skudoboards) can come loose or buckle, causing a tripping hazard and impeding pallet jack movement.</p> 	<ul style="list-style-type: none"> • Ensure material handling carts are suitable for surfaces where they are being used • Leave floors bare and buff out scratches when work is completed • Use alternative surface protection board (e.g., Masonite board)

CONDITIONS	RECOMMENDATIONS
<p>Disorganized inventory: Disorganized inventory can make it difficult to locate smaller components and hardware, resulting in work delays.</p>	<ul style="list-style-type: none"> • Designate a central storage area for smaller, more commonly used components and hardware • Store material in clearly labeled containers on suitable racks
<p>Moving heavy loads around tight spaces and obstructions: Navigating narrow doorways and other obstructions while moving heavy loads can raise the risk of ergonomic injuries as well as being caught in pinch points. Moving these loads while avoiding damage to the doors can also lead to frustration.</p> 	<ul style="list-style-type: none"> • Assign a spotter to move and replace cones, barriers, or other obstructions • For long or unbalanced loads, designate one worker to walk at the rear of the load to help steer • Use pallet jacks with horns • Best Built Plans for safe material handling



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