



One Team. One Culture.

PIPEFITTER, BUILDING TRADES CHA

CHPRC Craft Specific Safety Hazards Analysis

Version 5

7/13/2017

Kim Bautch

7-13-17

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Sign

Date

Building Trades Safety Reviewed

Kristine Robinson

7/13/17

Print

Sign

Date

Industrial Safety Reviewed

SANDRA GRAY

07/18/2017

Print

Sign

Date

Work Management Approval

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1.0 INTRODUCTION

1.1 Purpose

This hazard analysis applies to any Pipefitter, Building Trades employed by CH2M HILL Plateau Remediation Company (CHPRC) or Other Hanford Contractor (OHC) performing general craft specific work activities for CHPRC. The Craft Specific Hazard Analysis (CHA) covers general work activities performed routinely with limited, or no, work instructions and applies to those hazards that are not normally covered in work instructions, or technical procedures.

1.2 Scope

The CHA lists, by craft discipline, the hazards each craft person may be exposed to while performing work within their positions defined by the Building Trades Contract. Craft members, by discipline, are trained and experienced to recognize and mitigate those hazards consistent within their discipline.

This hazard analysis covers the Pipefitter, Building Trades performing general craft specific work activities. This hazard analysis is used in conjunction with the General Industrial Hazards Analysis document, and does not cover the environment in which these activities may be performed.

1.3 Applicability

Every CHPRC employee is expected to work safely and to maintain a safe work environment. The GHA and CHA documents identify the control measures for routine industrial hazards common to the core activities of the workers' assigned job position.

This hazard analysis is to be used in conjunction with PRC-WKM-PRO-079, Job Hazard Analysis, and Appendix B. After reviewing the work scope, location, the hazards involved, an evaluation is made to determine if this hazard analysis adequately bounds the work activity and can be considered skill-based.

2.0 RESPONSIBILITIES

The tasks listed are examples of the variety and general nature of duties performed by a Pipefitter, Building Trades. The list is descriptive only and should be used for no other purpose. It is not intended that any position include every duty listed nor is it intended that related duties cannot be required.

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3.0 HAZARDS

Activity / Hazard	Control
<p data-bbox="201 370 541 430">Blind Penetrations less than 1-½ Inches</p> <p data-bbox="201 464 516 524">Walls, floors, ceilings, roofs, or other surfaces</p> <p data-bbox="201 561 516 724"><i>This analysis does not apply to any work requiring an drilling, cutting or penetrating deeper than 1 ½ inches</i></p>	<p data-bbox="569 370 1612 399">Check both sides of penetration location for potential hazards whenever possible</p> <p data-bbox="569 431 1850 492">Cutting or penetrating asbestos, lead, silica, and other hazardous materials is not permitted without proper controls or applicable permits</p> <p data-bbox="569 529 1877 691">Note: Various piping systems, conduits, and electrical circuits are frequently embedded in concrete, block, piping insulation, and other inaccessible spaces. These hidden obstructions are frequently missing from drawings and may present risk of electrical shock and burns, hazardous chemicals, and other dangers. Thorough planning, hazard analysis, and safety precautions must be used whenever there is a possibility of contacting these hidden utilities</p>

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Activity / Hazard	Control
<p>Hot Work</p> <p>(Includes electric arc, oxy-fuel gas welding/cutting operations, heavy grinding, brazing, light grinding, tig or mig welding, or similar activities)</p>	<p>Check the MSDS/SDS for product contents before welding</p> <p>Verify a designated trained fire watch has been assigned</p> <p>Flame/fire retardant personal protective equipment</p> <p>Wear proper PPE for the task (previously IH approved - i.e. leather gloves, protective coveralls, leathers or FR rated clothing, protective goggles, respirator, and hoods)</p> <p>Remove the paint/coating at least 4 inches (10.2 cm) in every direction from the hot work</p> <ul style="list-style-type: none">• When grinding wear face shield and safety glasses• Verify paint has been tested for lead prior to removal <p>Inspect all leads, tools and equipment prior to use</p> <p>Physically ensure that the grounding lead has a good connection before you start welding</p> <p>Hot Work Permit - Follow applicable Hot Work Permit issued for work to be performed and have permit available for review</p> <p>All flammables/combustible material shall be kept clear of hot work areas</p> <p>Perform housekeeping regularly to prevent the build-up of flammables / combustibles (cardboard boxes, paper, etc.)</p> <p>Utilize "flash-shields" when other employees or visitors may be exposed to grinding activities or ultra-violet rays (from welding arc)</p> <p>Verify adequate ventilation/local exhaust is in use for welding, cutting, and burning operations, as specified by Industrial Hygiene. Verify cross ventilation does not interfere with capture of local exhaust</p> <p>When possible, position work so that worker is upwind of welding fumes.</p>