



IRONWORKER, BUILDING TRADES CHA

CHPRC Craft Specific Safety Hazards Analysis

Version 5

7/13/2017

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1.0 INTRODUCTION

1.1 Purpose

This hazard analysis applies to any Ironworker, 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 Ironworker, 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 Ironworker, 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="201 370 506 435">Hoisting and Rigging Operations</p> <p data-bbox="201 464 527 529">(Reference DOE/RL 92-36)</p>	<p data-bbox="569 370 1524 402">Verify a Designated Leader (DL) has been assigned for each H&R activity</p> <p data-bbox="569 431 1289 464">Only assigned craft will work inside a critical lift fall zone</p> <p data-bbox="569 493 1098 526">Use a trained spotter/flagman/signalman</p> <p data-bbox="569 555 1430 587">Erect barricades for crane work areas and rotating superstructures</p> <p data-bbox="569 617 1220 649">Ensure inspection is current for rigging equipment</p> <p data-bbox="569 678 1129 711">Inspect all rigging components, prior to use</p> <p data-bbox="569 740 1545 773">All employees (within the safety boundary “fall zone”) must wear a hard hat.</p> <p data-bbox="569 802 1860 867">Contact Electrical Utilities or Owner of overhead power lines if there is a potential of operating within 20 feet (6.1 m) of the overhead lines</p> <p data-bbox="569 896 1451 928">Use a trained spotter/line-watch inside LAB of overhead power lines</p> <p data-bbox="569 958 1871 1023">Determine mobile crane travel routes/paths (e.g., obstacles, bumps, changes in elevation, collocated workers, nearby structures)</p> <p data-bbox="569 1052 1381 1084">Remain current on OSHA Crane and Derrick Standard Briefing</p> <p data-bbox="569 1114 1178 1146">Establish Work Area and Fall Zone boundaries</p>

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Activity / Hazard	Control
<p data-bbox="201 305 342 331">Hot Work</p> <p data-bbox="201 370 499 630">(Includes electric arc, oxy-fuel gas welding/cutting operations, heavy grinding, brazing, light grinding, tig or mig welding, or similar activities)</p> <p data-bbox="201 662 499 727">PRC-PRO-FP-40421, Hot Work</p>	<p data-bbox="562 305 1329 331">Check the MSDS/SDS for product contents before welding</p> <p data-bbox="562 370 1308 396">Verify a designated trained fire watch has been assigned</p> <p data-bbox="562 428 1230 454">Flame/fire retardant personal protective equipment</p> <p data-bbox="562 493 1801 552">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 data-bbox="562 584 1717 610">Remove the paint/coating at least 4 inches (10.2 cm) in every direction from the hot work</p> <ul data-bbox="615 623 1346 688" style="list-style-type: none"><li data-bbox="615 623 1329 649">• When grinding wear face shield and safety glasses<li data-bbox="615 656 1346 688">• Verify paint has been tested for lead prior to removal <p data-bbox="562 721 1213 747">Inspect all leads, tools and equipment prior to use</p> <p data-bbox="562 786 1728 812">Physically ensure that the grounding lead has a good connection before you start welding</p> <p data-bbox="562 850 1898 909">Hot Work Permit - Follow applicable Hot Work Permit issued for work to be performed and have permit available for review</p> <p data-bbox="562 948 1518 974">All flammables/combustible material shall be kept clear of hot work areas</p> <p data-bbox="562 1013 1898 1071">Perform housekeeping regularly to prevent the build-up of flammables/combustibles (cardboard boxes, paper, etc.)</p> <p data-bbox="562 1110 1877 1169">Utilize “flash-shields” when other employees or visitors may be exposed to grinding activities or ultra-violet rays (from welding arc)</p> <p data-bbox="562 1208 1877 1266">Verify adequate ventilation/local exhaust is in use for welding, cutting, and burning operations, as defined by Industrial Hygiene. Verify cross ventilation does not interfere with capture of local exhaust</p> <p data-bbox="562 1305 1497 1331">When possible, position work so that worker is upwind of welding fumes</p>