Hanford Site Worker Eligibility Tool

Verifying Activity-Level Worker Medical Clearance and Training

Integrated Safety Management Champions Workshop

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The Challenge and Goal

• Qualified (eligible worker)
  – Medically cleared and trained

• The Challenge
  – Line management verifying workers are qualified prior to assignment on a multi-contractor site

• The Goal
  – Promote worker health and safety through a user friendly reporting system – the Hanford Site Worker Eligibility Tool (HSWET)
Activity-Level Hazard Identification and Control

• Automated Job Hazard Analysis (AJHA)
  – Computer program used to identify activity-level hazards and controls for work packages
  – Automatically specifies training as a control for a correlating hazard
  – Medical is not currently automatically specified, but planned for future upgrade
# HSWET Reporting Areas

## Two Primary Activity Level Working Areas

<table>
<thead>
<tr>
<th>Work Control</th>
<th>Job Function</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>People</strong></td>
<td><strong>Organization</strong></td>
</tr>
<tr>
<td>- CHET (Work Package)</td>
<td>- Group of people</td>
</tr>
<tr>
<td>- Resources (e.g., craft)</td>
<td>- Craft Specific Hazard Analysis (CSHA)</td>
</tr>
<tr>
<td><strong>Hazard Analysis</strong></td>
<td></td>
</tr>
<tr>
<td>- Automated Job Hazard Analysis (AJHA)</td>
<td>- Medical/Training</td>
</tr>
<tr>
<td><strong>Controls</strong></td>
<td></td>
</tr>
<tr>
<td>- Medical/Training</td>
<td>- Medical/Training</td>
</tr>
<tr>
<td><strong>Report</strong></td>
<td></td>
</tr>
<tr>
<td>- Eligibility Report; meets all criteria</td>
<td>- Eligibility Report; meets all criteria</td>
</tr>
<tr>
<td></td>
<td>- Watchstander Report; current status</td>
</tr>
</tbody>
</table>
CHET – Job Activity Screen

Provides general work package information

This work package is to repair steam heaters in the Plutonium Finishing Plant (PFP)

Key Point(s): Enter date range to work the package
CHET – Resources Screen

People

Displays resources (craft) specified in the work package

CHET: 2Z-12-00295/Y

Resources

- JCS Resource 24 - Pipefitters
  - Add Resource
  - C081 - Pipefitters
- JCS Resource 40 - Welders
  - Add Resource
  - C110 - Welders
- JCS Resource 04W - Nuclear Wst Process Op
  - Add Resource
  - R051 - Nuclear Wst Process Oper (NCO)

Total Criteria

PROJECT: CHPRC PFP
CHET – Resources Screen (cont.)

People

Initially includes entire Hanford Site as a resource pool

Key Point(s): Allows adding a filter to narrow the population

Number of people prior to filter (434)

Number of people after filter (101)
CHET – Training/Medical Screen

Hazard Analysis & Controls

Automatically adds training controls from activity-level hazard analysis

Key Point(s):
- Lists the hazard analysis for the work package
- Lists the training controls
Add medical/training controls

Key Point(s): This adds both medical and training requirements

Currently manual addition...automation planned for future
CHET – Resource Matrix Screen

Lists how the requirements are assigned to the resources
### CHET – Report Result

**Report**

- Lists the report criteria
- Lists the number of eligible workers
- Lists next training or medical due date (yellow due in date range)
- Highlights work restriction

#### JCS Resource 05 - Utilities System Operators

<table>
<thead>
<tr>
<th>Activity Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>JCS Work Package: 22-12-00255Y</td>
</tr>
<tr>
<td>Title: REPAIR 234-SZ SUPPLY FAN STEAM HEATERS (HOT WORK); Expires 05/2013</td>
</tr>
<tr>
<td>Facility: ZZ</td>
</tr>
<tr>
<td>Buildings: 234-SZ/2021</td>
</tr>
<tr>
<td>Room:</td>
</tr>
</tbody>
</table>

#### Resource List

<table>
<thead>
<tr>
<th>Resources</th>
<th>Filters</th>
</tr>
</thead>
<tbody>
<tr>
<td>COC: R070 - Utilities System Operators</td>
<td>PROJECT: CHPRC PFP</td>
</tr>
</tbody>
</table>

#### AJHA/Hazards List

<table>
<thead>
<tr>
<th>AJHA</th>
<th>Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZZ-6064</td>
<td>REPAIR 234-SZ SUPPLY FAN STEAM HEAT</td>
</tr>
</tbody>
</table>

#### Medical

- BERCU: BERYLLIUM WORKER
- HAZWS: HAZARDOUS WASTE WORKER MEDICAL EVAL

#### Training

<table>
<thead>
<tr>
<th>Employee</th>
<th>HID</th>
<th>Company</th>
<th>Next Trng Due</th>
<th>Training Due Date</th>
<th>Next Med Due</th>
<th>Medical Due Date</th>
<th>WR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beatty, Richard</td>
<td>0004619</td>
<td>CHPRC</td>
<td>000001</td>
<td>09/25/13</td>
<td>HAZWS</td>
<td>12/21/13</td>
<td>WR</td>
</tr>
<tr>
<td>Durante, Edward</td>
<td>0813216</td>
<td>CHPRC</td>
<td>031290</td>
<td>11/01/13</td>
<td>HAZWS</td>
<td>10/09/13</td>
<td>WR</td>
</tr>
<tr>
<td>Harie, Lawrence</td>
<td>0047676</td>
<td>CHPRC</td>
<td>000001</td>
<td>10/01/13</td>
<td>BERGU</td>
<td>10/15/13</td>
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<tr>
<td>Mizuki, Ken</td>
<td>0036150</td>
<td>CHPRC</td>
<td>031290</td>
<td>10/14/13</td>
<td>HAZWS</td>
<td>01/17/14</td>
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<tr>
<td>Morris, Robert</td>
<td>0059100</td>
<td>CHPRC</td>
<td>031290</td>
<td>10/14/13</td>
<td>HAZWS</td>
<td>12/21/13</td>
<td></td>
</tr>
<tr>
<td>Olsen, Joanne</td>
<td>0043701</td>
<td>CHPRC</td>
<td>031290</td>
<td>06/28/13</td>
<td>BERGU</td>
<td>12/14/13</td>
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</tr>
<tr>
<td>Petry, Muriel</td>
<td>3908999</td>
<td>CHPRC</td>
<td>000001</td>
<td>07/14/13</td>
<td>BERGU</td>
<td>03/13/14</td>
<td></td>
</tr>
<tr>
<td>Richardson, Paul</td>
<td>0021919</td>
<td>CHPRC</td>
<td>031290</td>
<td>07/14/13</td>
<td>BERGU</td>
<td>06/27/13</td>
<td></td>
</tr>
</tbody>
</table>

**Eligible Workers**

11 out of 17 eligible workers found
Organization – Worker Criteria Tab

People

Identify the worker base

Preferred to link to HR data...then changes are updated automatically

Lists the worker base

Other workers can be added, but requires manual maintenance
Organization – Hazards Tab

Hazard Analysis & Controls

Identify hazards with medical clearance controls

Identifies if something’s been selected

Lists what medical and training controls will be added
Organization – Other Training Tab

Hazard Analysis & Controls

Add additional required training

Lighter shade – from previous Hazard tab
Organization – Eligibility Report

Provides a list of people who meet all requirements.

Lists report criteria.

Yellow – Due 90 days.
Organization – Watchstander Report

Report

Provides a status summary

Lists report criteria

Blue – Current
Yellow – Due 90 days
Red – Expired

Lighter Shade – Not on training plan
Organization – Schedule Email

Report

Allows scheduling email delivery of report
Summary

• The Hanford Site Worker Eligibility Tool (HSWET) provides line management an easy to use tool to determine if workers are medically cleared and trained to perform work safely