1.0 General

1.1 This section provides information concerning the Subcontractor’s responsibility for badging, dosimeters, and training.

1.2 The Employee Job Task Analysis (EJTA) must be completed for each Subcontractor employee prior to performing work, if not already on file with Site Occupational Medicine Subcontractor. The Subcontractor shall submit a “Crew List” prior to starting work. Only personnel identified on the crew list are allowed to perform field work. This crew list shall be maintained current by the Subcontractor for the project and contain the following information:

- Hanford identification number.
- Subcontractor employee name.
- Date of EJTA submittal to Site Occupational Medicine Subcontractor.

The Crew List and any updates shall be controlled through the submittal process.

1.3 If the Subcontractor has any questions or needs clarification as to the requirements of Section 01 36 00, notify the Company’s Contract Administrator in writing.

2.0 Badges and Dosimeters

2.1 The Subcontractor shall request security badges through the Company’s Contract Administrator using the Security Badge Request form A-6001-782 (contact the Contract Administrator to obtain form).

2.2 The Company is responsible for reviewing and approving the security badge request and submitting the request to Hanford Patrol to allow security badge(s) to be issued.

2.3 The Subcontractor shall report the loss of security badges immediately upon discovery to the Hanford Patrol, Hanford Personnel Security office, and the Company’s BTR.

2.4 For work activities within radiological areas where personnel dosimetry monitoring is required, dosimeters will be provided to the Subcontractor employees. Issued dosimeters will be routinely monitored by the Dosimetry office. The Subcontractor is responsible to report immediately the loss or damage of any dosimetry to the Company and Dosimetry office.
2.5 The following medical screenings are required as noted for access to areas subject to radiological control. This is in addition to any other medical screenings (e.g. drug testing, annual physicals) required to perform work at Hanford, or required by the individual Subcontractor for their employees.

For general access into areas subject to radiological control:

- 10 Min Whole Body Count (WBC).

For hands on work with contaminated components (including excavations):

- 10 Min WBC.
- Isotopic Pu Bioassay.
- Isotopic Sr Bioassay.

2.6 The following medical screenings are required for access to Tank Farms, Tank Farms Hazardous Waste Areas, and Beryllium Control Areas:

- Tank Farm Entry.
- Tank Farm Hazardous Waste Worker.
- Beryllium Worker.

If the Subcontractor has any questions or needs clarification as to the medical screening requirements, notify the Company’s Contract Administrator in writing.

2.7 The Subcontractor is responsible to return all security badges and dosimeters upon termination of employment or completion of work and before final payment shall be made. The Company will charge the Subcontractor a $1,000 fee for each badge or dosimeter not returned. The charge shall be deducted from payment otherwise due to the Subcontractor. Refund of charges, previously collected for badges subsequently found will not be made after the date of final payment to the Subcontractor.

3.0 Training

3.1 General Training

TOC Contracted/Sub-Contracted Personnel minimum training requirements:

- 000001, Hanford General Employee Training (HGET) Hanford Site Standard.
- 358001, Tank Operations Contractor (HGET).
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- All qualified electrical workers and qualified electrical supervisors will attend and / or complete:
  044482, *Hanford Site Electrical Safety Program Training.*
  NFPA 70E, *Electrical Safety in the Workplace.*
- Electrical Supervisor / Foremen will complete:
  357008, *TOC Electrician and Instrument Technician Supervisor / Foreman Qualification Card.*
- Qualified Electrical Workers will complete:
  354A30 and / or 354B30, *TOC Apprentice/Journeyman Electrician Verification Checklist.*

In addition to 3.1, *General Training*, TOC Contracted/Sub-Contracted Non-electrical workers, includes workers who operate electrical hand tools, such as drills and grinders shall complete:

- 044480, Electrical Safety for the Non-Electrical Worker.

3.2 Tank Farm Facility Access (entering radiological areas through the Access Control Entry System [ACES]).

3.2.1 Training Courses:

For unescorted Tank Farm access, the following courses are needed to ACE in using Waste Worker role GW1:

- 020001, Radiological Worker II.
- 031220, 40-Hour Hazardous Waste TSD Worker.
- 031410, 1-Day Supervised Field Experience.
- 350560, TOC Waste Handling, Segregation and Packaging.
- 350761, Tank Farm Facility Orientation and FEHIC.
- 351524, Chemical Hazard Awareness Training.
- 351569, TOC Hazardous Waste Transport Overview General Awareness.
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3.3 Construction Field Work Supervisor (FWS) / Superintendent

The Subcontractor shall provide one or more full time qualified Field Work Supervisor (FWS) (e.g., superintendent, general foreman, etc.) to be on-site to oversee and coordinate daily work activities.

An alternate FWS shall be identified and qualifications submitted for backup if the designated FWS is not on-site (e.g., in training).

3.3.1 General (DOE Order 426.2).

- High school Diploma or equivalent.
- Three (3) years nuclear experience or review/waiver from the Company’s Training Department and the Company’s Manager of Construction.

3.3.2 Personnel contracted to perform field work supervision outside a tank farm.

- 350159, First Line Manager Course.
- 350069, TOC Operational Expectations.

3.3.3 Personnel contracted to perform field work supervision within a tank farm.

- 044625, Mobile Crane Hazard Awareness
- 350159, First Line Manager Course.
- 350160, Construction Field Work Supervisor (Qualification Card).
- 350933, Safety Basis Training.
- 350069, TOC Operational Expectations.

3.3.4 Construction FWS’s who supervise personnel performing Crane and Rigging activities.

- 040784, Basic Crane & Rigging Safety.
- 042310 Advanced Rigging Techniques.

3.3.5 Construction FWS’s who supervise personnel performing Forklift activities.

- 044470, Forklift Operational Safety.
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3.3.6 Construction FWS’s who supervise personnel performing Asbestos activities.
   - 170060, Certified Asbestos Supervisor.

3.3.7 Construction FWSs who supervise personnel performing beryllium activities.
   - 004140, Beryllium Worker Training.
   - 004107, Beryllium Training for Planners/PICS/Supervisors/Managers (PPSM).

3.3.8 Construction FWS’s who supervise personnel performing Excavation activities:
   - 750000, Trenching & Excavating for Competent Persons.

3.3.9 Construction FWSs who supervise personnel performing lead activities.
   - 020150, Lead (PB) Worker Training (LWT).
   - 356614, Tank Farm Lead Hazard Communication.

3.3.10 Construction FWSs who supervise personnel performing electrical activities.
   - 044482, Hanford Site Electrical Safety Program Training

3.4 Site Safety Representative Qualifications/Responsibilities

The Subcontractor is required to designate a Site Safety Representative responsible for ensuring compliance by the Subcontractor and lower-tier Subcontractors to the approved safety and health program. The Safety Representative function shall be limited to safety.

The Safety Representative shall conduct documented inspections during active construction (excluding weekends, weather delays, or other periods of work inactivity) to identify and correct instances of noncompliance with project safety and health requirements. The Safety Representative shall be onsite, or readily accessible, at all times during active work. The Safety Representative shall chair a safety team that involves craft workers and report safety initiatives and concerns to the Construction Safety Manager.
BADGES, DOSIMETERS, TRAINING AND QUALIFICATIONS

The Subcontractor designated Site Safety Representative minimum qualifications include:

a. A resume identifying relevant construction safety experience.

b. Shall meet the criteria for one of the following designations:
   1. Construction Health Safety Technician (CHST).
   2. Occupational Health and Safety Technician (OHST).
   3. Associated Safety Professional (ASP) or Certified Safety Professional (CSP).
   4. Industrial Hygienist in Training (IHIT), Certified Associate Industrial Hygienist (CAIH) or Certified Industrial Hygienist (CIH).

c. Five years’ experience in construction safety and health.

d. Two years as a full-time safety professional in the construction industry.

e. Construction safety training demonstrated through participation in seminars, workshops, conferences, educational courses, hands-on field experience, etc.

f. Deviations to the above qualifications shall be approved by the Safety Programs Manager and the Manager of Construction. The approval decision will be based on a thorough review of the qualifications and the level of complexity and assessed risk of the project.

3.5 Mobile Crane Operations

The Subcontractor shall submit evidence of the following documentation for Crane Operator’s qualifications as required by DOE-RL-92-36, Hanford Site Hoisting and Rigging Manual and TFC-ESHQ-S-STD-28, Hoisting and Rigging Safety.

- Completion of the following Hoisting and Rigging courses;
  - 040784 or equivalent, Basic Crane & Rigging Safety.
  - 044605, Equipment Operation Near Power Lines.
  - 044674, Propane Bottle Change-Out (required for changing bottle only).
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- 170661 or equivalent, Fire Extinguisher Training for Mobile/CAB-Operated Crane Operators.
- 044626, Mobile Crane Operator Certification, via completion of the National Commission for the Certification of Crane Operators (NCCCO) certification.

**NOTE:** Equivalent training must be approved by the Company Training department.

- On-the-Job Evaluation (within the previous 60 months) for the class of crane being operated or documented operation of the specific crane (within the previous 12 months).
- 044621, Class 1 Lattice Boom Truck Mobile Cranes.
- 044622, Class 2 Lattice Boom Crawler Mobile Cranes.
- 044623, Class 3 Telescopic Boom Single Control Station Mobile Cranes.
- 044624, Class 4 Telescopic Boom Multiple-Control Station Mobile Cranes.
- 044652, Class 5 Commercial Truck Mounted Telescopic Boom Mounted Cranes.
- 044656, Class 9 Telescoping Boom Fixed Control Station Cranes.

**NOTE:** Operating Company provided equipment requires on-the-job training (OJT) on the mobile crane the employee will be operating (see site form A-6005-516).

3.5.1 Rigger, Signal Person and/or Spotter for Mobile Crane Operations.

- 040784, Basic Crane & Rigging Safety.
- 042310, Advanced Rigging Techniques.
- 042865, Advanced Rigging (OJE).
- 044605, Equipment Operation Near Power Lines.

3.5.2 Mobile Crane Authorized Workers.

Authorized workers performing work near a mobile crane’s vicinity, or in support of the crane operator that are essential to the operation shall be trained in the hazards as required by OSHA 29 CFR, Part 1926, Subpart
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**NOTE:** Not required for qualified riggers and crane operators.
- 044625, Mobile Crane Hazard Awareness.

### 3.6 Rigging Personnel Qualifications

The Subcontractor shall submit evidence of following documentation for Rigging Personnel qualifications as required by DOE-RL-92-36, *Hanford Site Hoisting and Rigging Manual*.

- Completion of the following Hoisting and Rigging courses:
  - 040784 or equivalent, Basic Crane & Rigging Safety (or 040788, Challenge Exam).
  - 042310 or equivalent, Advance Rigging Qualifications (or 042315, Challenge Exam).

**NOTE:** Equivalent training must be approved by the Company Training department.
- 042865, On-the-Job Evaluation for Advance Rigging (within the previous 60 months).

### 3.7 Forklift Operations

The Subcontractor shall submit evidence of following documentation for Forklift Operator’s qualifications as required by DOE-RL-92-36, *Hanford Site Hoisting and Rigging Manual*.

- Physical Examination (initial and every 36 months thereafter).
- Substance Abuse Test (initial and every 36 months thereafter).

**NOTE:** Substance abuse test is required only for operation of forklifts designed for highway use with a gross vehicle weight rating of 26,001 lbs. or more.
- 044470, Completion of Forklift Operational Safety (or 041890, Challenge Exam), or proof of vendor’s equipment manufacturer’s training compliant with 29 CFR 1910.178.
- On-the-Job Evaluation for class of forklift being operated (within the previous 36 months).
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NOTE: 044470, Forklift Operational Safety or a challenge exam and an equipment specific OJE (on the job evaluation) are required for each class of forklift that will be operated.

- 04467B, Class 3 Forklift Operation Qualification.
- 044673, Class 4, 5, and 7 Forklift Operation Qualification.
- 044676, Class 8 Forklift Operation Qualification.

3.8 Respiratory Training

NOTE: Supplied Air, Air Purified Respirator and Powered Air Purified Respirator training is determined by medical clearance (EJTA), equipment availability, and what specific equipment an Individual is trained and qualified to use.

4.0 Other Job Specific Training Requirements

4.1 Lock and Tag Authorized Worker

- 003056, Lockout/Tagout Authorized Worker Practical Evaluation.
- 003111, Hanford Site Lockout/Tagout for Authorized Workers.

4.2 Operates the Guzzler Vacuum Truck

- 031002, Guzzler Vacuum Truck Operations.

4.3 Performs Pilot/Escort Vehicle Operations (needed to move Mobile Cranes between the Tank Farms).

- 031000, Pilot/Escort Vehicle Operator.

4.4 Asbestos Training

The Subcontractor may encounter asbestos while performing certain work activities, such as gasket removal. When asbestos is encountered, submittals indicating successful completion of the following courses (or their equivalents) shall be required prior to performing work in the field associated with asbestos removal or abatement:

- 170055, Certified Asbestos Worker.
- 170060, Certified Asbestos Supervisor.
BADGES, DOSIMETERS, TRAINING AND QUALIFICATIONS

4.5 Beryllium Training

The Subcontractor may encounter some beryllium hazard while performing intrusive work activities as defined in the DOE-0342 (latest revision), Hanford Site Chronic Beryllium Disease Prevention Program (CBDPP). When work activities are required to meet the beryllium requirements per the CBDPP, submittals indicating successful completion of the following courses (or their equivalent).

- 004140, Beryllium Worker Training
- 004107, Beryllium Training for Planners/PICS/Supervisors/Managers (PSM).

4.6 Competent/Qualified Person Training.

The Subcontractor shall submit a letter signed by Management identifying their Competent Person(s) for Asbestos, Excavation, Fall Protection, Ladders, and/or Scaffolds as applicable for the scope of work.

The Competent Person must be capable of identifying existing and predictable hazards in the surroundings, or working conditions which are unsanitary, hazardous, or dangerous to employees. This person must be knowledgeable through education, experience, and training of applicable regulations, standards, equipment, and systems in their area of expertise as assigned by management. They must fully understand the requirements of 29 CFR 1926 as it applies to their area of expertise and have the authorization to take prompt corrective measures to eliminate hazards.

Once all requirements are complete, the appropriate qualified/competent person form must be completed and submitted.

NOTE: Although encouraged, the FWS does not need to be the competent/qualified person.

- Competent Person for Asbestos (A-6005-803).
- Competent Person for Excavation (A-6005-804).
- Competent Person for Fall Protection (A-6005-805).
- Competent Person for Ladders (A-6005-806).
- Competent Person for Scaffolds (A-6005-807).
- Qualified Person for Fall Protection (A-6005-808).
- Qualified Person for Scaffolds (A-6005-809).
4.7 Hanford Site Safety Programs

- 020134, Hanford Site Confined Space Entry.
- 020440, Fall Protection PFAS Users.
- 020148, Fall Protection PFAS User Practical Exercise.
- 044371, Users Scaffold Safety – CBT.
- 044391, Portable Ladder Safety – CBT.

4.8 Facility Specific Training

Facility specific training is typically of short duration, not lasting longer than a typical pre-job briefing. Examples would include:

- CBT 058000, Cold Test Facility (site orientation, elevator usage).
- CBT 000071, 222-S Labs (site orientation and FEHIC).
- 03E079, ETF FEHIC.
- 705705, ETF Facility Orientation.

4.9 Lead Training

The Subcontractor may encounter lead while performing certain work activities, such as lead shielding, lead blankets, etc. When lead is encountered, submittals indicating successful completion of the following courses (or their equivalents) shall be required prior to performing work in the field.

- 020150, Lead (Pb) Worker Training (LWT).
- 356614, Tank Farm Lead Hazard Communication.