

CHAPTER I

SECTION 6

**EXPLOSIVES SAFETY DESIGN
CONSIDERATIONS**

I.6.A POSITION HAZARD ANALYSIS (PHA)

I.6.A.01 A PHA shall be prepared and updated as necessary, and documented by the supervisor of each USACE position as warranted by the hazards associated with the position's task.

> See EM 385-1-1 Figure 1-1, and Figure I.6-1, below.

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FIGURE I.6-1
POSITION HAZARD ANALYSIS

| POSITION HAZARD ANALYSIS (PHA) FOR USACE EMPLOYEE | | |
|---|--|---|
| NAME: (Print - Last, First, MI): _____ | | Prepared by: (Print Name – Last, First, MI): _____ |
| JOB SERIES: _____ | | Reviewed by (UXOSO): _____ |
| JOB TITLE: _____ | | |
| JOB NUMBER (SF52): _____ | | |
| Date (mo) _ _ (day) _ _ (year) _ _ _ _ | | |
| COMMAND NAME & ORGANIZATION CODE: _____ | | |
| PRIMARY DUTY LOCATION: _____ | | |
| Clearances Required | | |
| EM OPS Team First Aid/CPR Respirator CDL Crane Operator Diver HTRW | | |
| Other | | |
| <input type="checkbox"/> | | |
| POSITION TASKS | SAFETY AND/OR OCCUPATIONAL HEALTH HAZARDS* | RECOMMENDED CONTROLS |
| 1. | 1. | 1. |
| 2. | 2. | 2. |
| 3. | 3. | 3. |
| 4. | 4. | 4. |
| 5. | 5. | 5. |
| 6. | 6. | 6. |
| 7. | 7. | 7. |

*Note - Examples of potential hazards are as follows:

Safety: trenching, electrical, slips, trips, fall hazards, etc.

Physical Agent: Exposure to heat/cold, noise, stress, vibration, radiation, etc.

Chemical: Exposure to solvents, cadmium, paints, welding fumes, pesticides, etc.

Biological: Exposure to bloodborne pathogens, poison ivy, insects, fungi, etc.

**FIGURE I.6-1
POSITION HAZARD ANALYSIS (CONTINUED)**

| EQUIPMENT, MATERIALS, CHEMICALS TO BE USED | INSPECTION REQUIREMENTS | TRAINING REQUIREMENTS |
|---|---|---|
| List for each task [include Material Safety Data Sheets(MSDSs)] | List inspection requirements for each work task | List safety/health training requirements |
| 1. | 1. | 1. |
| 2. | 2. | 2. |
| 3. | 3. | 3. |
| 4. | 4. | 4. |
| 5. | 5. | 5. |
| 6. | 6. | 6. |
| 7. | 7. | 7. |
| 8. | 8. | 8. |
| 9. | 9. | 9. |
| 10. | 10. | 10. |

The employee covered by this analysis has been instructed in the tasks to be performed, the hazards to be encountered, the potential adverse effects of exposure to such hazards and the controls to be used. He/she has received adequate training specifically related to safe work practices, administrative and engineering controls and personal protective equipment (PPE) to be used in order to ensure assigned work tasks are conducted in a safe and healthful manner. He/she has demonstrated an understanding of the safety and health equipment and PPE to be used to include its limitations, useful shelf-life, how to properly don, doff, adjust, and wear required PPE, and how to properly care for, inspect, maintain, store, and dispose of such equipment. Attached is documentation of the training received, dates of such training, and the subject matter taught.

Supervisor Signature _____ Employee Signature _____

Date ___/___/_____

Date ___/___/_____

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I.6.B ACTIVITY HAZARD ANALYSIS (AHA)

> See EM 385-1-1, Figure 1-2; and Figure I.6-2, below.

I.6.B.01 Before beginning each work activity involving a type of work presenting hazards not experienced in previous project operations, or where a new work crew or sub-contractor is to perform the work, the Contractor(s) performing that work activity shall prepare an AHA.

I.6.B.02 AHAs will define the activities being performed and identify the sequences of work, the specific hazards anticipated, site conditions, equipment, materials, and the control measures to be implemented to eliminate or reduce each hazard to an acceptable level of risk.

**FIGURE I.6-2
ACTIVITY HAZARD ANALYSIS (AHA)**

Date Prepared: _____

Project Location: _____

Prepared By: _____

Job/Task: _____

Reviewed By: _____

| <u>JOB STEPS</u> | <u>HAZARDS</u> | <u>CONTROLS</u> | <u>RAC</u> |
|---|---|---|---|
| <u>Identify the principal steps involved and the sequence of work activities.</u> | <u>Analyze each principal step for potential hazards.</u> | <u>Develop specific controls for potential hazards.</u> | <u>Assign Appropriate Risk Assessment Code (RAC) per AR 385-10.</u> |
| <u>EQUIPMENT</u> | <u>TRAINING</u> | <u>INSPECTIONS</u> | |
| <u>List equipment to be used in the work activity.</u> | <u>List training requirements.</u> | <u>List inspection requirements.</u> | |