FACILITY: <u>Beverage 2-Pc.</u> DATE: <u>November 1992</u>	SPECIAL REQUIREMENTS	Drain and ventilate	None	Ground fault circuit interrupter in line	Portable generator or suspend operations	G.F.C.I. Portable Station	Provide ventilation at minimum of 1000 CFM/ Welder
CONFINED SPACE: Washer – Wash Tank LOCATION: Front End	<b>PROTECTIVE</b> EQUIPMENT	Protective clothing, boots, gloves, and goggles	Bump Cap	Class I Division I Portable Lighting	Flash Lights	Double Insulated Tools	Complete welder protective gear; issue Hot Work Permit; respirator – metal fume cartridge or air sup-plied
	TESTING	None	None	None	None	Continuity circuit tester	Check welding rod MSDS for metal fume (Ni, Cr, Fe, Mn) generation Chlorinated organics may produce Phosgene gas when heated
	IDENTIFIED/POTENTIAL HAZARDS	Wet Interior Surfaces	Head Contact (Tight Quarters)	Inadequate Lighting	Power Failure	Electrical Fault – Power Tools	Welding Hazards
		∞.	9.	10.	. 11.	12.	13.
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CONFINED SPACE HAZARD IDENTIFICATION/EVALUATION

RESCUE/RETRI	EVAL INCIDENT REPOR	Т				
NOTICE: THIS INFORMATION MAY BE PUBLISHED ON ASSE'S WEBSITE, NEWSLETT	ER, ETC. AS A LEARNING TOOL FOR OTHER RESCUERS.					
*Rescue Team:	DATE OF INCIDENT:	DATE OF INCIDENT:				
*City/State:	TIME OF INCIDENT:	TIME OF INCIDENT:				
*Names of Rescuers:	TOTAL RESCUE TIME: (TEAM ARRIVAL TO V	TOTAL RESCUE TIME: (TEAM ARRIVAL TO VICTIM EVAL.)				
	Type of Incident Location:					
Special Challenges, Weather Conditions, etc.:	Possible Cause of Incident/Injury:	Possible Cause of Incident/Injury:				
REASON FOR VICTIM BEING ON SITE: (140.1%, inspection, unputhorized, etc.)	Briefly Describe Patient's Injuries:					
CONFINED SPACE ELEVATED BELOW GRADE						
RESCUE TECHNIQUES USED: THIRD-MAN PICK-OFF LINE TRANSFER SINGLE-LINE VERTICAL LITTER/SKED LOWER SINGLE-LINE HORZ. LITTER/SKED LOWER DOUBLE-LINE LITTER LOWER DOUBLE-LINE LITTER LOWER W/ATTENDANT HARNESS LOWER OTHER:	HORIZONTAL HAULING SYSTEM: Z-rig (3:1) Piggy-back (4:1) Other: Z-rig (3:1) Piggy-back (4:1) Other:	Other: Compound M/A				
DESCRIBE INCIDENT: (OR ATTACH REPORT, SKETCHES, OR PHOTO	OS OF INCIDENT)					
KEY LESSONS LEARNED FROM THIS INCIDENT						
*REPORTED BY:	*TITLE:					
*PHONE:	E-MAIL:					

\*OPTION NOTE: PROVIDED INFORMATION WILL NOT BE MADE PUBLIC AT THE REQUEST OF THE REPORTING ENTITY - AS A LEARNING TOOL, ONLY THE VERY BASIC FACTS OF THE INCIDENT WILL BE MADE PUBLIC. INITIAL HERE IF NAMES AND LOCATIONS ARE TO BE WITHELD\_\_\_\_\_.

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# A10 CONSTRUCTION & DEMOLITION STANDARDS

ANSI/ASSE A10.3 Powder-Actuated Fastening Systems

ANSI/ASSE A10.4 Personnel Hoists & Employee Elevators on Construction & Demolition Sites

ANSI/ ASSE A10.5 Safety Requirements for Material Hoists

ANSI/ ASSE A10.6 Safety & Health Program Requirements for Demolition Operations

ANSI/ASSE A10.7 Safety Requirements for Transportation, Storage, Handling & Use of Commercial Explosives & Blasting Agents

ANSI/ASSE A10.8 Safety Requirements for Scaffolding

ANSI/ ASSE A10.9 Safety Requirements for Concrete & Masonry Work

ANSI/ ASSE A10.10 Safety Requirements for Temporary & Portable Space-Heating Devices

ANSI/ ASSE A10.12 Safety Requirements for Excavation

ANSI/ASSE A10.13 Safety Requirements for Steel Erection

ANSI / ASSE A10.15 Safety Requirements for Dredging

ANSI/ ASSE A10.16 Safety Requirements for Tunnels, Shafts, & Caissons

ANSI/ ASSE A10.17 Safe Operating Practices for Hot Mix Asphalt (HMA) Construction

ANSI/ASSE A10.18 Safety Requirements for Temporary Floor Holes, Wall Openings, Stairways & Other Unprotected Edges

ANSI/ ASSE A10.19 Safety Requirements for Pile Installation and Extraction Operations

ANSI / ASSE A10.20 Safe Operating Practices for Tile, Terrazzo, & Marble Work

ANSI/ASSE A10.22 Safety Requirements for Rope-Guided & Non-Guided Workers' Hoists

ANSI / ASSE A10.24 Roofing Safety Requirements for Low-Sloped Roofs

ANSI/ASSE A10.27 Safety Requirements for Hot Mix Asphalt Facilities

ANSI/ASSE A10.28 Safety Requirements for Work Platforms Suspended from Cranes or Derricks

ANSI/ASSE A10.31 Safety Requirements, Definitions, & Specifications for Digger Derricks

ANSI/ ASSE A10.32 Fall Protection Systems for Construction & Demolition Operations

ANSI / ASSE A10.33 Safety & Health Program Requirements for Multi-Employer Projects

ANSI/ASSE A10.34 Protection of the Public on or Adjacent to Construction Sites

ANSI/ASSE A10.38 Basic Elements of an Employer's Program to Provide a Safe & Healthful Work Environment

ANSI / ASSE A10.39 Construction Safety & Health Audit Program

ANSI/ASSE A10.40 Reduction of Musculoskeletal Problems in Construction

ANSI/ ASSE A10.42 Safety Requirements for Rigging Qualifications & Responsibilities

ANSI/ASSE A10.44 Control of Energy Sources (Lockout/Tagout) for Construction & Demolition Operations

ANSI / ASSE A10.46 Hearing Loss Prevention for Construction & Demolition Workers



# ADDITIONAL STANDARDS

## Z359 STANDARDS

Z359 Fall Protection Code Package

ANSI/ ASSE Z359.0 Definitions and Nomenclature Used for Fall Protection and Fall Arrest

 $\ensuremath{\mathsf{ANSI}}\xspace$  /  $\ensuremath{\mathsf{ASSE}}\xspace$  2359.1 Safety Requirements for Personal Fall Arrest Systems, Subsystems and Components

ANSI/ASSE Z359.2 Minimum Requirements for a Comprehensive Managed Fall Protection Program

ANSI/ASSE Z359.3 Safety Requirements for Positioning and Travel Restraint Systems

ANSI/ASSE Z359.4 Safety Requirements for Assisted-Rescue and Self-Rescue Systems, Subsystems and Components

### A1264 STANDARDS

A1264.1 Safety Requirements for Workplace Walking/Working Surfaces & Their Access; Workplace Floor, Wall & Roof Openings; Stairs & Guardrails Systems

ANSI/ ASSE A1264.1 Safety Requirements for Workplace Floor & Wall Openings, Stairs & Railing Systems

ANSI / ASSE A1264.2 Standard for the Provision of Slip Resistance on Walking/Working Surfaces

ANSI/ASSE A1264.3 Technical Report: Using Variable Angle Tribometers (VAT) for Measurement of the Slip Resistance of Walkway Surfaces

### ADDITIONAL STANDARDS

ANSI/ PMMI B155.1 Safety Requirements for Packaging Machinery & Packaging-Related Converting Machinery

ANSI/ AIHA Z10 Occupational Health & Safety Management Systems

ANSI / ASSE Z15.1 Safe Practices for Motor Vehicle Operations

ANSI / ASSE Z87.1 Occupational & Educational Eye & Face Protection Devices

ANSI / ASSE Z117.1 Safety Requirements for Confined Spaces

ANSI/ ASSE Z244.1 Control of Hazardous Energy - Lockout/Tagout & Alternative Methods

ANSI/ASSE Z390.1 Accepted Practices for Hydrogen Sulfide Safety Training Programs

ANSI/ ASSE Z490.1 Criteria for Accepted Practices in Safety, Health, & Environmental Training

ANSI/ASSE Z590.2 Criteria for Establishing the Scope & Functions of the Professional Safety Position

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# Comparison Document of ANSI/ASSE Z117.1 American National Standard Safety Requirements for Confined Spaces

For Versions 1995, 2003 and 2009



# **American Society of Safety Engineers**

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Safety Requirements for Confined Spaces

For Versions 1995, 2003 and 2009

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# Z117.1 Comparison Document

The following pages have been designed for comparison purposes only. This publication is not the ANSI/ASSE Z117.1 standard. The changes annotated may or may not inclusive of all changes. This document is separate from, and is not to be confused with, the ANSI/ASSE Z117.1-2009, Safety Requirements for Confined Spaces, American National Standard.

The purpose of this document is to show the changes and evolution within the Z117.1 standard between the 1995, 2003 and 2009 versions.