

Pre-Planning for Construction Safety & Health Using the ANSI/ASSP A10.1 Standard

American National Standard for Construction and Demolition Operations



Pre-Planning for Construction Safety & Health Using the ANSI/ASSP A10.1 Standard

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Chair – A10.1 Subcommittee:

Executive Director of Safety, National Electrical Contractors Association

Tim Fisher, CSP, CHMM, CPEA, ARM, FASSP

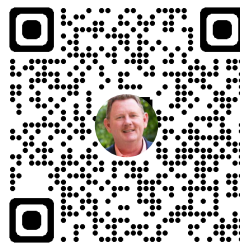
ASSP - Chief Technical Officer for Safety, Health and Wellbeing



WESLEY L. WHEELER SMP, CESC, MSP

NECA Executive Director Safety

- SMP – Safety Management Professional, BCSP
- CESC – Certified Electrical Safety Compliance Professional, NFPA
- MSP – Master Safety Professional, NASP
- Florida State Certified Electrical Contractor, FL EC=-13005299 (2013)
- ACCSH – Advisory Committee for Construction Safety & Health, (2019, 2021)
- OSHA Construction Outreach Instructor
- NFPA NEC Technical Committee Member, (Since 2008)
- NFPA 70E Technical Committee Member, (2018, 2021 Revision Cycles)
- Construction Industry Alliance for Suicide Prevention – Board Member



Tim Fisher, CSP, CHMM, CPEA, ARM, FASSP Chief Technical Office for Safety, Health and Wellbeing

Tim Fisher, CSP, CHMM, CPEA, ARM, FASSP, is director of standards and technical services for ASSP. A member of the Society's staff since 1995, Fisher oversees ASSP's standards-development activities. During his ASSP career, Tim also served as manager of governmental affairs and relations.

Prior to joining ASSP, he was facilities and operations manager with Allstate Insurance Co., and he served in the U.S. Air Force.

A professional member of ASSP, Fisher holds an M.S. in Industrial Management, Safety and Industrial Hygiene, from Northern Illinois University, an M.A. in Public Administration from University of Illinois-Chicago and a B.A. in Management from the University of Maryland, University College.



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Pre-Project & Pre-Task Safety and Health Planning

AGENDA:

- Construction Owners – Pre-Project Safety and Health Planning
- Project Constructors – Pre-Project Safety and Health Planning
- Project Constructors – Pre-Task Safety and Health
- Contractors – Pre-Project Safety and Health Planning
- Contractors – Pre-Task Safety and Health Planning
- Worker Participation in Safety and Health Planning
- Appendix Materials and References

Our Goal: Help OSH professionals create programs for prepare for Pre-Project & Pre-Task Safety and Health Planning



ASSP - A10 Committee for Construction and Demolition Operations

Questions:

- Who is familiar with the A10 Standard Series?
- Who has used the A10.1 Standard?
- What A10 Standards have you used?
- How do A10 Standards relate to Federal Regulations such as OSHA?



ASSP - A10 Committee for Construction and Demolition Operations

History

- “Construction and demolition work sites pose serious hazards and risks that can cause worker injuries, illnesses and fatalities. Industry standards provide best practices for identifying, assessing and controlling these risks.”

What

- “The ANSI/ASSP A10 series of standards cover safety requirements for a whole host of activities related to construction and demolition operations,.....”

Why

- “Safety professionals can use the A10 standards to help prevent worker injuries, illnesses and fatalities. These incidents harm workers and their families, carry high costs and damage a company’s reputation. A10 standards apply directly to field operations to help all involved recognize and prevent hazards related to construction and demolition operations.”



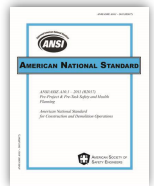
OSHA and A10 – “The Relationship”

OSHA: 29 CFR 1910 and 29 CFR 1926

- Promulgates the rules and regulations according to the Code of Federal Regulations.
- Rulemaking process can take many years to fruition.
- Is the **“SHALL.”**

ANSI/ASSP A10 Standards are:

- Developed through “Consensus.”
- ANSI accredited, revised according to their requirements.
- They are the **“HOW”** to comply with OSHA



ANSI/ASSP A10 Standards

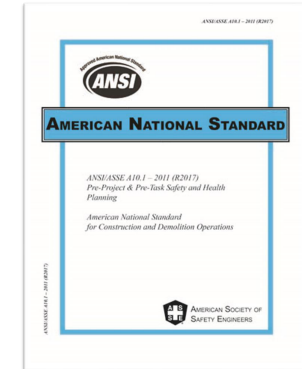
- A10.0 The Construction and Demolition Compendium of Standards
- A10.1 Pre-Project & Pre-Task Safety & Health Planning
- A10.2 Safety, Health and Environmental Training (under development)
- A10.3 Powder-Actuated Fastening Systems
- A10.4 Personnel Hoists and Employee Elevators
- A10.5 Material Hoists
- A10.6 Demolition Operations
- A10.7 Use, Storage, Handling and Site Movement of Commercial Explosives and Blasting Agents
- A10.8 Scaffolding
- A10.9 Concrete and Masonry Construction
- A10.11 Personnel Nets
- A10.12 Excavation
- A10.13 Steel Erection
- A10.15 Dredging
- A10.16 Tunnels, Shafts and Caissons
- A10.18 Temporary Roof and Floor Holes, Wall Openings, Stairways and Other Unprotected Edges
- A10.19 Pile Installation and Extraction Operations
- A10.21 Safe Construction and Demolition of Wind Generation/Turbine Facilities
- A10.22 Rope-Guided and Non-Guided Workers' Hoists
- A10.23 Safety Requirements for the Installation of Drilled Shafts
- A10.24 Roofing – Safety Requirements for Low-Sloped Roofs
- A10.25 Sanitation in Construction
- A10.26 Emergency Procedures for Construction Sites
- A10.28 Work Platforms Suspended from Cranes or Derricks
- A10.30 Installation of Anchors and Micropiles
- A10.31 Digger-Derricks
- A10.32 Personal Fall Protection Used in Construction and Demolition Operations
- A10.33 Safety and Health Program Requirements for Multi-Employer Projects
- A10.34 Public Protection
- A10.35 Pressure Testing of Steel and Copper Piping Systems
- A10.37 Debris Nets
- A10.38 Basic Elements of a Program to Provide a Safe and Healthful Work Environment
- A10.39 Construction Safety and Health Audit Program
- A10.40 Reduction of Musculoskeletal Problems in Construction
- A10.42 Rigging Qualifications and Responsibilities in the Construction Industry
- A10.43 Confined Spaces in Construction and Demolition Operations
- A10.44 Lockout/Tagout in Construction
- A10.46 Hearing Loss Prevention
- A10.47 Highway Construction Safety
- A10.48 Communication Structures
- A10.49 Control of Health Hazards
- A10.50 Heat Stress Management in Construction and Demolition Operations
- A10.100 Prevention through Design in Construction
- A10.101 Drones in Construction (under development)
- A10.103 Lagging and Leading Indicators Used in Construction (under development)
- A10.104 Pandemics and Infectious Diseases on Construction and Demolition Sites (under development)



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General Information about A10.1

- **A10.1 History**
 - Created 2011
 - First Revision in October 2017
 - Current Revision Approved by Ballot, April 2024,



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General Information about A10.1

- **Scope**
 - This standard establishes the elements and activities for pre-project and pre-task safety and health planning in construction and defines the actions based on the typical organizational roles.
- **Purpose**
 - The primary purpose of this standard is to assist construction owners, project constructors, and contractors in making pre-project and pre-task safety and health planning a standard part of their planning processes. This standard is also intended to assist owners in establishing a process for evaluating project constructor candidate safety and health performance and planning practices.



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Other Referenced A10 Industry Standards

- **ANSI/ASSP A10.33**, *Safety and Health Program Requirements for Multi-Employer Projects*
- **ANSI/ASSP A10.34**, *Protection of the Public on or Adjacent to Construction Sites*
- **ANSI/ASSP A10.38**, *Basic Elements of an Employer's Program to Provide a Safe and Healthful Work Environment*
- **ANSI/ASSP A10.39**, *Construction Safety and Health Audit Program*
- **ASSP TR-A10.100**, *Technical Report, Prevention through Design – Life Cycle Approach to Safety and Health in the Construction Industry*



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Definitions (Section 3)

- Company Safety Program
- Pre-Task Safety and Health Planning
- Hazardous Task
- Complex Task
- Construction Owner
- Project Constructor



Key Definition: Company Safety and Health Program

Written company program describing how the company will address safety and health as it pertains to workers, other affected personnel and the general-public.



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Key Definition: Pre-Task Safety and Health Planning

The process of incorporating worker safety and health into the planning of each complex task and potentially hazardous task in each phase of the project

Key Definition: Hazardous Task

- Any task that presents a substantial probability of death, serious physical harm or significant impairment to health without appropriate safety or health protective measures.



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Key Definition: Complex Task

Any potentially hazardous task that requires specific competencies e.g., structural engineering expertise, complex crane hoist/lift expertise, industrial hygiene expertise, etc., for safe and successful completion.

Examples of complex tasks may include, but are not necessarily limited to excavations, demolition, confined space entry, hazardous substance abatement and critical lifts (cranes and helicopters), etc.

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What's New in the Latest Revision?

- Includes Prevention through Design, (*PtD*), concepts.
 - Provides potential to reduce or eliminate hazards during design phase.
- Incorporates employee involvement in all parts of the planning process.
- Provides plan outline for quick reference
- Provides A10.1 Checklist and Reference Links for Compliance

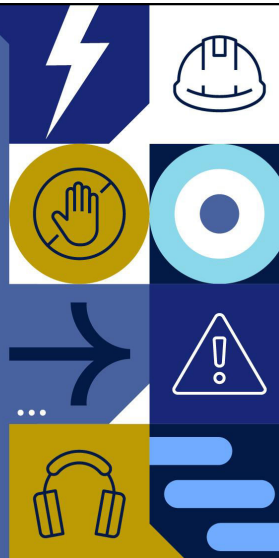
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Owners Pre- Project S & H Planning (Section 4)

- Ensure that project safety policies are established and implemented 4.1
- Ensure safety is considered in the design process 4.2
- Establish project constructor candidate safety evaluation process/criteria 4.3



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Construction Owners – PtD in Pre-Project S&H Planning

4.2.2 The construction owner shall ensure safety and health design specifications are established and incorporated into the appropriate contract documents. Where an owner retains a design professional, the design professional shall propose occupational safety and health design specifications that will help to prevent or minimize work related hazards.

*NOTE: **Prevention through design (PtD)** is a risk-reduction strategy implemented in the design and planning stages of new construction that provides a unique opportunity to identify hazards and reduce exposures to those hazards. By integrating safety, health, and environmental considerations in the design stages, **PtD** provides an opportunity to control and reduce hazardous exposures throughout the life of the building by refocusing efforts from risk management (reactive) toward hazard elimination (proactive). Applying **PtD**, therefore, has the potential to reduce or eliminate hazards to everyone involved in the construction, management, operation, maintenance, renovation, and decommissioning phases of the building. The use of a **PtD** approach will support the pre-project safety and health planning process by eliminating or modifying potential hazards before construction begins. This is discussed in ANSI/ASSP A10.100.*

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Project Constructors Pre-Project S & H Planning (Section 5)

- Plan for project's overall safety and health 5.1
- Perform project hazard identification to identify *Complex Tasks* 5.2.1
- Develop a project hazard identification report 5.2.1.1
- Establish project specific safety and health plan 5.3
- Meet with contactor candidates to convey project safety issues/requirements 5.4
- Evaluate contractor candidates' safety and health performance 5.5



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Project Constructors – Worker Input in Pre-Project S&H Planning and Project Hazard Identification

5.2.1 The project constructor shall perform project hazard identification using contract documents, project schedules, site assessments, drawings, plans, building information models, project specifications, **worker input**, etc. to identify the complex tasks that will be performed on the project.

(See Section 9, Worker Participation in Safety and Health Planning.)



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Project Constructors Pre-Task S & H Planning (Section 6)

- Establish regular safety coordination meetings with contractors hired for the project 6.1



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Project Constructors – Project S&H Plan Outline of Critical Topics

- | | |
|--|--|
| 1. Materials delivery and storage | 23. Shift work |
| 2. Public traffic control – work zones (people and vehicles) | 24. Incident reporting |
| 3. Construction equipment in shared work areas | 25. Incident response procedures |
| 4. Safety equipment in shared work areas | 26. Unsafe conditions reporting |
| 5. Onsite first aid and medical treatment facilities | 27. Process for assuring effective communication, including feedback on health and safety from supervisors and workers |
| 6. Emergency eyewash and emergency shower facilities | 28. Emergency action plan including emergency stop work procedure |
| 7. Change facilities | 29. Chemical use and storage |
| 8. Sanitary facilities | 30. Controls for chemical hazards |
| 9. Washrooms | 31. Site security |
| 10. Clean rooms and storage areas | 32. Special hazards – including but not limited to the high-risk hazards associated with OSHA Focus Four and other Serious Injuries and Fatalities |
| 11. Break rooms/areas | 33. Illumination |
| 12. Shower facilities | 34. Public exposure protection |
| 13. Decontamination facilities | 35. Potentially hazardous adjacent operations |
| 14. Inclement weather protection plan | 36. Potential for earthquakes and other environmental issues |
| 15. Access and egress routes | 37. Heat illness prevention plan |
| 16. Construction vehicle access control | 38. Safety and health training |
| 17. Parking facilities | |
| 18. Walkways and sheds for pedestrians | |
| 19. Housekeeping | |
| 20. Material handling | |
| 21. Scheduling | |
| 22. Overtime work | |



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Project Constructors – Pre-Task S&H Planning Agenda to address:

1. Upcoming complex tasks
2. Project design factors applicable to worker safety and health in upcoming tasks
3. Fall prevention
4. Identification of overhead and underground hazardous energy sources (Gas, Steam, Chemical, Electrical and Mechanical)
5. Introduction of new contractors
6. Substantive changes to the project's work environment
7. Changes to the project's communication plans
8. Crane movements
9. Construction equipment and vehicle traffic patterns designed to reduce the risk to pedestrian traffic
10. Construction equipment and vehicle traffic pattern changes
11. Special equipment and material delivery
12. Substantive changes concerning hazardous substances (hazard communication)
13. Underground work and excavations
14. Substantive changes to project plans
15. Chemical use, storage, and disposal
16. Use and maintenance of engineering controls
17. Lockout/tagout requirements
18. Potentially hazardous materials at existing facilities
19. Emergency response planning, including any changes to the plan during the project or task
20. Training
21. Other specific hazards



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Contractors Pre-Project S & H Planning (Section 7)

- Plan for safety within scope of work 7.1.
- Perform project hazard identification to identify *Potentially Hazardous Tasks* 7.2.1
- Develop a project hazard identification report 7.2.2
- Establish project specific safety and health plan 7.3.
- Meet with sub-tier contractor candidates to convey project safety issues/requirements 7.4
- Evaluate sub-tier contractor candidates' safety and health performance 7.5
- Establish safety and health training plan within the scope of work 7.6
- Select construction equipment based on available safety features 7.7



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Contractors – Pre-Project S&H Planning Project Specific S&H Plan

7.3.1 Each contractor shall review the project constructor's project hazard identification report. Potentially hazardous tasks identified by a contractor that are not addressed in the report shall be reported by that contractor to the project constructor.

7.3.2 Each contractor shall develop a project specific safety and health plan. The plan shall include provisions for addressing complex tasks and other project specific safety and health issues such as potentially hazardous tasks identified during the contractor's project hazard identification process.

7.3.3 Each contractor shall include in the safety and health plan a description of how frequent (pre-shift, daily, weekly) meetings are conducted with all workers on site to communicate any high hazard tasks that will be conducted, changing conditions, changes in access, logistical issues and any other issue that may expose site workers to hazards. Additional methods such as signs, postings, traffic controls, flyers, text, email, sub-contractor supervisor/foreman and verbal communications should be used.



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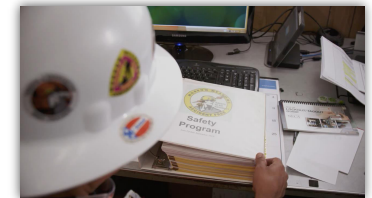
Safety and Health Planning for Sub-Tier Contractors

7.5.1 Each contractor shall evaluate the safety and health performance of each sub-tier contractor candidate before contracting with them to perform work on the project.

7.5.2 The project constructor's established safety and health performance measurement criteria shall be used by the contractor to help determine whether a sub-tier contractor candidate qualifies to work on a project.

7.5.3 The contractor shall require each sub-tier contractor candidate to submit its company safety and health program.

7.5.4 The contractor shall evaluate each sub-tier contractor candidate's company safety and health program. Each program shall be evaluated as part of the sub-tier contractor selection process.



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Safety and Health Planning for Sub-Tier Contractors

7.5.5 The contractor shall require each sub-tier contractor candidate to provide a report covering safety and health equipment, resources and activities anticipated for the project. At a minimum, the report shall include the following:

1. Safety staff based on the scope of work
2. Onsite safety and health training including the time allocated for craft labor safety and health training
3. A substance abuse program, which includes a company policy, and drug and alcohol testing
4. Personal protective equipment required within their scope of work
5. Use of construction equipment with specific regard to worker safety and health
6. Other safety and health resources anticipated for the project
7. Methods the supervisor will use to effectively communicate with workers
8. Methods of safety mentoring for new workers
9. Contact information for individuals responsible for safety including the names of competent persons assigned to the project
10. Other safety and health topics as needed



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Contractors – Training Requirements

7.6.1.1 Craft labor (worker) safety and health training shall include the following types of training:

1. New hire orientation
2. Job specific training
3. Site-specific training
4. Onsite safety meetings (safety talks, toolbox talks, safety alerts, etc.)
5. Regular re-training



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Contractors – Training Requirements

7.6.1.2 Safety and health training for supervisors shall include the following types of training:

1. Instruction on how to establish a safe project work environment
2. Project specific safety and health orientation
3. Identification of, and corresponding protective measures for, the most common applicable trade specific safety and health hazards
4. Site emergency response procedures
5. Instruction on how to effectively inform and train workers on critical safety and health issues in a language which is comprehensible to them



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Contractors Pre-Task Planning (Section 8)

- Perform task hazard analysis for each *Complex Task 8.1*
- Perform task hazard analysis for each *Potentially Hazardous Task 8.1*
- Establish responsibility for supervision and actual work **8.1**
- Ensure that task specific safety training is completed before task is started **8.2**
- Ensure that all necessary safety equipment is readily available/accessible **8.3**



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Worker Participation in S&H Planning (Section 9) "NEW"

- Pre-project participation 9.1
- Contractor provide every person involved opportunity to actively participate in hazard identification 9.1.1
- Implement standardized checklists to facilitate consistency 9.1.2
- Pre-Task Hazard Analysis 9.2
- Supervisor provide every person involved in performing task an opportunity to actively participate in task hazard analysis 9.1.1



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Worker Participation

9.1 Pre-Project Participation

9.1.1 As part of the planning process, each contractor shall ensure every person (direct employee, subcontractor vendor, supervisor, etc.,) involved in a project shall have the opportunity to actively participate in or review the project hazard identification and provide feedback on the content as appropriate to their role on the project.



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- A10.1 Standard Outline - Appendix A
- Safety and Health Performance Measurement Criteria - Appendix B
- Project Hazard Identification Guidelines - Appendix C
- Task Hazard Analysis Guidelines - Appendix D
- A10.1 Checklist and Reference Links - Appendix E
- Suggested Search Terms and Reference Links - Appendix F

Non-Mandatory Appendices



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Appendix E: A10.1 Checklist and Reference Links

Section	Question	Yes	No	NA
Section E: Construction Overview				
E.1	Do safety and health expectations, goals, and policies are defined for the project?			
E.1.1	There is a means to ensure that the project contractor implements the project specific safety and health policies and is evaluating for necessary changes throughout project construction?			
E.2	There is a means to provide training and safety education to enhance worker safety and health on the project?			
E.2.1	Are training materials/curriculum for the project safety and health specifications and performance criteria?			
E.2.2	There is a means to schedule pre-project planning meetings with the project contractor candidates to communicate the safety and health specifications and education?			
E.2.3	There is a means to ensure that the project contractor has reviewed the safety and health design specifications and requirements to all affected project personnel?			
E.2.4	The bid process provides sufficient time and information for the project contractor candidates to adequately evaluate design requirements and investigate site conditions?			
E.2.5	Sufficient time and resources are available for pre-project safety and health planning?			
E.2.6	There is a means to evaluate project contractor candidate safety and health plans and progress during the project performance measurement period?			
E.3	Project contractor candidate operational plans and company safety and health programs are used in the bid/contract process?			
Section E: Project Construction - General Responsibilities				
E.3.1	There is a means to perform a hazard identification and completing and communicating the report?			
E.3.2	Are safety and health plans included at the relevant safety and health topics in the standard?			
E.3.3	There is a means to confirm that the project specific safety and health plan is implemented by all contractors on the project?			
E.3.4	There is a means to evaluate the plan throughout project construction, review in case necessary, immediately advise all contractors about changes made to the plan?			
E.4	There is a means to schedule pre-bid meetings with all contractor candidates?			
E.4.1	There is a means to provide the project specific safety and health plan and hazard identification report to each contractor candidate?			
E.4.2	There is a means to ensure that the project contractor candidates for complex tasks and critical tasks and how they will be addressed?			
E.4.3	Each contractor candidate includes a discussion of the selected contractor's specific project safety and health responsibilities?			

Section	Question	Yes	No	NA
Section E: Project Construction - Construction with Contractors				
E.4.4	Regular safety and health planning meetings are established with all contractor for the purpose of monitoring project activities?			
E.4.5	All contractor and employee representatives participate in the planning meetings according to the scope of the project?			
E.4.6	There is an agenda for each planning meeting addressing the applicable safety and health topics listed in the document?			
Section E: Project Construction - Contractor Responsibilities				
F.1	Each contractor performs a hazard identification within the scope of work?			
F.1.1	Each contractor develops a hazard identification report that includes a list of the potentially hazardous tasks with accompanying descriptions of each task?			
F.1.2	Each contractor updates the project safety and health plan includes all identified hazardous tasks or reports any additional identified hazardous tasks to the project contractor?			
F.1.3	Each contractor develops a project specific safety and health plan?			
F.1.4	Contractor health and safety plans include a discussion of how frequently meetings will be conducted with an agenda or shall communicate about high hazard tasks?			
F.1.5	On-bid meetings are arranged with all contractor candidates?			
F.1.6	On-bid meetings are provided with the relevant information concerning prior to the pre-bid meeting?			
F.1.7	Pre-bid meetings include a discussion of potentially complex and hazardous tasks and safety and health responsibilities within the scope of work?			
F.1.8	On-bid meetings include a review of the contractor's safety and health plan including project specific safety and health training and qualifications, training, and drug and alcohol testing?			
F.1.9	On-bid meetings include a discussion on the project specific safety and health responsibilities of the contractor?			
F.1.10	Each contractor candidate includes a discussion of the contractor's specific project safety and health performance measurement criteria?			
Section E: Project Construction - Contractor Responsibilities				
F.2	Each contractor candidate submits to company safety and health program?			
F.2.1	Each contractor candidate provides a report covering safety and health requirements, resources, and activities implemented for the project?			
F.2.2	Each contractor candidate includes a safety and health training plan within the scope of work for affected contractor labor and equipment?			
F.2.3	Each contractor candidate includes a discussion of the contractor's specific project safety and health performance measurement criteria, and operator training requirements?			



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Appendix E: A10.1 Checklist and Reference Links

Section	Completion	Pre-task Planning			
E.1	Each contractor performs task hazard analysis before beginning work on any complex task or potentially hazardous task, as close to the time the task will begin as is feasible?				
E.1.1	Each contractor identifies the individuals responsible for supervising and performing each complex and potentially hazardous task?				
E.1.2	Each contractor assigns individual responsibility for implementing safety and health control measures established by task analysis and potential hazardous task?				
E.1.3	There is a means to ensure each affected supervisor and all affected craftworkers are informed about the task hazard analysis and resulting them to participate in the process?				
E.1.4	All craftworkers are informed of how to correct the supervisor in competent person?				
E.1.5	There is a means to ensure that supervisors are ensuring each individual responsible for performing any part of a complex or potentially hazardous task has been properly trained to perform the task safely?				
E.1.6	There is a means to ensure that supervisors are ensuring that craftworkers receive the safety and/or health subject identification for task hazard analysis and the appropriate training necessary to perform the task safely?				
Worker Participation					
E.2	Every person (owner, employer, subcontractor, union, supervisor, etc.) involved in a project is provided the opportunity to participate in or review the project hazard analysis and provide feedback on the content as appropriate to their role on the project?				
E.2.1	Control system implementation measures and procedures for planning and task hazard analysis to facilitate consistency of approach to engage and solicit feedback from affected workers during the planning process?				
E.2.2	Control system development equipment a meeting schedule designed to maximize the involvement of all right line workers familiar with the construction tasks to be performed throughout the safety and health planning process?				
Worker Training					
E.3	All affected hazardous workers who perform the project's construction activities receive the opportunity to participate in the task hazard analysis and provide feedback on the content before beginning the task?				
E.3.1	All task hazard analysis and resulting action plan for the task will require all affected workers and subcontractors to be trained in the task hazard analysis and the appropriate training necessary to perform the task safely?				
E.3.2	Control system implementation measures to be taken to facilitate consistency and uniformity of approach within and between each team when addressing hazards associated with specific tasks?				
E.3.3	The project coordinator and control system personnel provide review and attend periodic hazard analysis meetings to verify the effectiveness of the process, provide feedback and ensure worker involvement?				
E.3.4	Periodic quality audits of control forms are conducted and include both prompt feedback provided to affected subcontractors?				



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REVIEW A10.1-2024

What did we cover today?

- Construction Owners – Pre-Project Safety and Health Planning
- Project Constructors – Pre-Project Safety and Health Planning
- Project Constructors – Pre-Task Safety and Health
- Contractors – Pre-Project Safety and Health Planning
- Contractors – Pre-Task Safety and Health Planning
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QUESTIONS



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Pre-Planning for Construction Safety & Health Using the ANSI/ASSP A10.1 Standard

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