

Job Safety Analysis

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1.0 ACTIVITY DESCRIPTION

- 1.1. The purpose of a Job Safety Analysis (JSA) program is to mitigate or eliminate hazards associated with performing specific job tasks. The JSA program provides a process and tool to identify, evaluate, discuss, mitigate, and document potential hazards and appropriate control measures. In alignment with CS-G-9, "Guidance for Serious Injury and Fatality Prevention", life-threatening (High Energy) hazards and Direct Controls are prioritized. JSAs are vital to an organization's overall safety program because they encourage operational prioritization of safety, integrate safety as part of the work task for high risk and/or novel activities, and encourage safety communication at the crew level.
- 1.2. The purpose of this document is to describe guidelines for the preparation and communication of task specific JSAs. A JSA, sometimes called a Field Level Hazard Analysis (FLHA), may be discussed, or included with other processes such as a Job Hazard Analysis (JHA), Site-Specific Safety Plans (SSSP), and Toolbox Talks. It is important that workers know that the previously listed items are all jobsite safety-related tools, and each plays a different role. For these guidelines, the following definitions will be used:
 - 1.2.1. Job Safety Analysis (JSA) JSAs are prepared for a specific work activity that will be performed. JSAs are performed to identify hazards (real and potential) that are, or may be, present at the specific work location under current environmental conditions (weather, external impacts, etc.) and to prescribe the appropriate mitigation of the identified potential hazard(s), before commencing a work activity. JSAs should be updated when activities scope of work, or conditions (weather, soil conditions, etc.) change during performance of the task.
 - 1.2.2. **Field Level Hazard Analysis (FLHA)** FLHAs are equivalent to JSAs.
 - 1.2.3. **<u>Pre-Job Brief (PJB)</u>** PJBs are equivalent to JSAs.
 - 1.2.4. **Job Hazard Analysis (JHA)** A JHA is a document that identifies the general hazards of and mitigation measures for common construction activities or tasks, such as excavation, stringing pipe, lowering-in, welding, tie-ins, bending, etc.
 - 1.2.5. <u>Site-Specific Safety Plan (SSSP)</u> An SSSP is a document that is developed for each specific project, identifying its safety hazards and how to mitigate them. A SSSP can be an important source material for creating JSAs.



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- 1.2.6. <u>**Toolbox Talks**</u> Toolbox talks are utilized for a wide variety of topics (e.g., safety, task review, environmental, landowner considerations, etc.). Toolbox talks are particularly useful to communicate "good catches" or incidents that have happened within a company or they can be lessons learned that have been shared in our industry (e.g., refer to the INGAA Foundation Lessons Learned Database).
- 1.3. The basic JSA described in this document is most often prepared by the Crew Leader or Foreman (or other personnel as assigned or designated by the Foreman), with ACTIVE input and participation from the crew members, and used to stimulate substantive conversation regarding task steps or sequencing, specific hazards, and the corresponding control measures.
- 1.4. Hazard recognition is crucial to any JSA, especially for the prioritization of hazards that could most likely cause a Serious Injury or Fatality (SIF). Relevant hazard recognition and prioritization tools are defined as follows.
 - 1.4.1. <u>Energy Wheel:</u> A tool used to help identify and evaluate potential sources of hazardous energy in a workplace or during a specific task.
 - 1.4.2. <u>High Energy Hazard:</u> A hazard that exceeds 1500 Joules (roughly equivalent to 500 foot-pounds) of physical energy and is most likely to cause a SIF if an employee contacts the energy.
 - 1.4.3. <u>High Energy Icons:</u> 13 icons that represent hazard types that are categorically almost always more than 1500 Joules of physical energy (CS-G-9, Appendix A).
 - 1.4.4. <u>Direct Control:</u> A barrier that is specifically targeted to the highenergy source; effectively mitigates exposure to the high-energy source when installed, verified, and used properly; and is effective even if there is unintentional human error during work that is unrelated to the installation of the control.
- 1.5. The guidelines in this document are not meant to supersede or replace regulatory requirements, nor are they intended to be all-inclusive of the applicable contractor/owner company safety protocols or regulatory requirements. Instead, these guidelines are intended to support and complement existing requirements.



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2.0 HAZARD ASSESSMENT

- 2.1. Hazard assessments are performed as part of the JHA (routine activities) or the JSA (site-specific) development process.
- 2.2. Hazard assessments should be performed to identify potential hazards associated with work activities, particularly those involving High Energy sources, commonly performed on natural gas pipeline construction projects.
- 2.3. High Energy hazards should be prioritized and highlighted for additional focus on SIF prevention. High Energy hazards may be colloquially referred to as life-threatening hazards, stuff that could kill you (STKY hazards), life changing/altering/ending events, etc.

3.0 ROLES AND RESPONSIBILITIES

- 3.1. **Management Responsibilities** (includes all personnel with a supervisory role)
 - 3.1.1. Provide the mechanism for adequate training of all applicable personnel to identify hazards associated with the tasks they may perform and to designate the appropriate control measures.
 - 3.1.2. Empower applicable personnel with the ability to mitigate or make recommendations on appropriate control measures for site-specific hazards and potential hazards.
 - 3.1.3. Verify that applicable employees are trained in the JSA process.
 - 3.1.4. Confirm that Frontline Supervisors are trained on communication of JSAs.
 - 3.1.5. Actively participate in and support the JSA process/activity while visiting a site/project (where applicable).
 - 3.1.6. Perform objective assessments on the quality of JSAs preparation and communication, specifically but not limited to the effectiveness of Frontline Supervisor preparation and communication of JSAs. Provide recommendations and support to continuously improve their effectiveness (where applicable).
 - 3.1.7. Stop Work Authority/Responsibility Immediately stop and correct perceived unsafe or hazardous activities.



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3.2. Frontline Supervisor Responsibilities

- 3.2.1. Review the more general JHAs that are applicable to the work/project.
- 3.2.2. Assess and evaluate applicable on-site personnel to ensure that they understand the JSA process.
- 3.2.3. Prepare comprehensive and detailed JSAs.
- 3.2.4. Encourage crew involvement in preparation of JSAs.
- 3.2.5. Communicate the JSA before the scheduled tasks are performed.
- 3.2.6. Conduct appropriate reviews and revisions to JSAs and communicate changes to pertinent field personnel.
- 3.2.7. Stop Work Authority/Responsibility Immediately stop and correct perceived unsafe or hazardous activities.

3.3. Health & Safety (H&S) Professional Responsibilities

- 3.3.1. Provide technical support for preparation and communication of JSA guidelines.
- 3.3.2. Develop, coordinate, conduct and/or approve JSA training.
- 3.3.3. Evaluate the effectiveness of the JSA program and make recommendations for improvement (when necessary).
- 3.3.4. Review completed JSAs to evaluate thoroughness and/or the appropriate level of communication and control measures/mitigations.
- 3.3.5. Stop Work Authority/Responsibility Immediately stop, report, and correct perceived unsafe or hazardous activities.
- 3.3.6. Actively participate in and support the JSA process/activity while visiting a site/project (where applicable).

3.4. Employee Responsibilities

- 3.4.1. Follow the procedures described in these guidelines.
- 3.4.2. Complete the JSA-related training associated with job assignments and responsibilities.
- 3.4.3. Participate in the development and communication of JSAs, as applicable to assigned tasks and job responsibilities.
- 3.4.4. Report to the Supervisor any recognized hazard that cannot be immediately corrected.



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- 3.4.5. Review JSAs when conditions change (e.g., weather, scope of the task, nearby activity), and make appropriate changes to potential hazards and/or control measures.
- 3.4.6. Immediately stop and correct perceived and actual unsafe or hazardous activities.

4.0 EQUIPMENT AND SUPPLIES

Not Applicable

5.0 HAZARD MITIGATION USING JSAs

- 5.1. There are three basic steps in preparing a JSA:
 - 1. Identify the job, task, and steps.
 - 2. Identify real and potential hazards, particularly those involving High Energy sources, or potential incidents that may be associated with each task and step.
 - Reference general JHAs pertinent to the task/work activity and/or the SSSP.
 - Consider potential impacts from site-specific conditions (weather conditions, ground surface slope, landscape, other nearby activities, etc.).
 - 3. Describe mitigation and control measures applicable to the potential hazards identified in Step 2. Identify presence or absence of Direct Controls for each High Energy hazard identified.

5.2. **JSA Format and Content**

- 5.2.1. The JSA form lists common hazards identified that can be reviewed and checked with the crew. The form should also provide blank areas that can be used to add any site-specific hazards and mitigations of those hazards.
- 5.2.2. The form should include fields for all individuals to sign after each review, the date, and time of review.
- 5.2.3. Examples of information the JSA form could include, but are not limited to:
 - Identification of task(s) to be performed, associated potential hazards, and corresponding mitigations required to perform the task safely,



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- Identification and emphasis on High Energy Hazards and corresponding Direct Controls,
- Resources to be used (equipment, shoring, materials, etc.),
- Alternative (i.e. controls that are not Direct Controls) required prior to work (signs, barricades, goalposts, etc.),
- Person responsible for each task (training required, spotters needed, etc.),
- Work location (site address or equivalent),
- Current weather,
- Identification of short-service employees,
- Proper PPE,
- Required permits (e.g., hot work, lock-out/tag-out),
- Muster point(s),
- Warnings/alerts How to communicate in the event of an emergency,
- Address/Phone Number of nearest medical facility (Pre-printed on JSA for each project/location),
- Emergency contact information/Names of First Aid CPR trained personnel,
- "Competent Person(s),
- Signature of Owner/Operator Representative,
- Security concerns or considerations, and
- Reminder of Obligation to exercise Stop Work Authority (SWA) if conditions warrant.
- 5.2.4. Refer to Appendix A for example JSA forms.

5.3. Identifying Hazards and Control Measures

- 5.3.1. A JSA is an important tool in the effort to identify hazards and outline effective mitigation or controls. To improve the effectiveness of identification and control efforts, the following suggestions are offered:
 - It is important for JSA authors/facilitators to consider adjacent activities. JSAs can be too focused on the tasks they are scoped for, overlooking nearby hazards that could have an impact on the immediate task.
 - Scanning the worksite for energy sources (potential energy, mechanical energy, thermal energy, etc.) has been a technique



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demonstrated to improve hazard identification effectiveness. *Refer* to Appendix B for Energy Wheel Hazard Assessment Tool.

- Scanning the worksite for high-energy hazards using the High Energy Icons. *Refer to Appendix A of CS-G-9 for relevant definitions.*
- It is more helpful to be specific than general when identifying hazards. For example, broadly citing "trip hazards" is not as effective as citing the "trip hazards from the cable trays in the Northeast corner of the site."
- Finally, JSAs are most valuable when they focus on substance over form. When done in a way in which the quality of the conversation is held to more importance than the format of the written, JSAs, encourage vital scenario-building, brainstorming and high engagement among field staff.
- 5.3.2. Refer to the applicable JHAs and SSSP as the starting point to identify and mitigate potential hazards of each activity. Then expand or customize the JSA to incorporate actions or considerations based on site-specific conditions.
- 5.3.3. Once High Energy Hazards on the jobsite are identified, review corresponding Direct Controls. If a Direct Control is absent and cannot be feasibly reinstated, highlight the Exposure and ensure presence of Alternative Controls.
- 5.3.4. Once other task-related jobsite hazards are identified, designate control measures per the hierarchy of hazard control (i.e., elimination, substitution, engineered controls, administrative controls, PPE).

5.4. **JSA Communication and Presentation**

- 5.4.1. Effective JSAs are a process that integrates safety and health principles into a particular task. JSAs are more than a form.
- 5.4.2. The keys to success of the JSA process are twofold: 1) careful planning; and 2) effective communication via crew involvement.
- 5.4.3. Include the entire crew assigned to a job activity in the JSA process to ensure all employees conducting a task understand the hazards, specifically the high energy hazards that are most likely to cause a SIF, and how to mitigate them.



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- The JSA should be communicated verbally and in detail with all crew personnel onsite, and then subsequently to any/all other individuals who visit or perform work on that site, before engaging in the work activity.
- Encourage the field personnel to openly discuss the JSA. By giving applicable field personnel a way to participate in safety decisions, their engagement can lead to improved hazard awareness and understanding of safe work practices.
- Frontline Supervisors should encourage the crew to actively participate. Asking questions and seeking input from crew members helps to create an environment where the entire crew is actively engaged in the JSA process.
- 5.4.4. Front-line supervision (Crew Leaders or Foremen) are the key individuals responsible for the success of crew safety, compliance, quality, and production. Therefore, they should have the ability to communicate and engage their crew in developing, communicating, and executing safe work plans. The ability of the Crew Leader to perform this task well will define the success of the program.
- 5.4.5. After the Crew Leader explains in detail the task that is to be performed, encourage team members to point out the potential High Energy hazards and Direct Controls followed by other relevant hazards and their proposed mitigation or control measures. This encourages crew engagement and communication.
- 5.4.6. Be mindful of the primary language(s) of the field personnel. Training, presentations, daily communications, forms, handouts, etc. need to be communicated so that all field personnel understand.
- 5.4.7. During the JSA discussion, give field personnel an opportunity to share examples of good catches, near misses, etc. to learn from experience and prevent potential reoccurrence.

5.5. JSA Reviews

- 5.5.1. The JSA MUST be reviewed by all personnel entering the active work area, including but not limited to, field personnel, contractor management, owner company representatives, inspection staff, vendors, guests/visitors onsite, etc.
- 5.5.2. The initial review shall take place prior to the start of any work task.



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- 5.5.3. A recommended Best Management Practice (BMP) is to review the JSA again after any break or interruption (e.g., weather, stop work, conditional change, lunch etc.) ≥ 30 minutes.
- 5.5.4. Reviews should also take place any time conditions or work activities change, for example:
 - If the equipment sustains damage;
 - After a safety related incident (e.g., injury, accident, or near miss);
 - When the job is altered; or
 - Upon identification of a new hazard(s).

5.6. **JSA Documentation and Recordkeeping**

- 5.6.1. All JSAs should be signed by all applicable crew members and visitors.
- 5.6.2. All JSAs should be turned in on a daily basis.
- 5.6.3. Remember "If it's not documented, it didn't happen."

6.0 TRAINING

- 6.1. All employees should receive awareness training on the JSA process.
- 6.2. Contractor's employees and/or on-site employees must have appropriate training to identify hazards, particularly those associated with high-energy sources, and understand the information presented in a JSA. All employees must be trained on recognition of hazards by associated energy types.

7.0 REFERENCES

- 7.1. Edison Electric Institute *Pre-job Meeting Scorecard, Training Video Guidance and Solutions*, August 2023 (Power to Prevent SIF | (eei.org)).
- 7.2. Refer to Appendix C for Construction Safety Research Alliance (CSRA) Pre-Job Safety Scorecard, <u>https://www.csra.colorado.edu/</u>.

8.0 HISTORY OF REVISIONS

Revision	Date	Description
0	6/16/2017	Initial Issue
1	3/29/2022	Updated per continuous improvement cycle
2	10/22/24	Updated per High Energy and Direct Control concepts.



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Appendix A – Example JSA Forms

TalLGATE SAFETY MEETING MINUTES Image: Company: Course of the company: Com	steps to be taken	The second secon		Recommended Safe Job Procedures
any: Job # Location: Implement any: Foreman/Supervisor: Implement Implement id Personnel: Implement Implement Implement EST CLINIC: Implement Implement Implement Implement EST CLINIC: Implement Implement <td< th=""><th>(CRECK all that apply to Job)</th><th>(Check all that apply to task steps from column 1)</th><th>(Check all protective measures that apply to hazards identified in column 2)</th><th>y to hazards identified in column 2)</th></td<>	(CRECK all that apply to Job)	(Check all that apply to task steps from column 1)	(Check all protective measures that apply to hazards identified in column 2)	y to hazards identified in column 2)
any: lob #Location: any: Foreman/Supervisor: iid Personnel: Address EST CLINIC: Address EST CLINIC: Address EST CLINIC:	Driving	Traffic hazards (vehicular & pedestrian)	Designate a person for a specific task such as confined space attendant. fire watch, etc.	Clean the state of the state
Job # Location: any:	Uvalking	Working on rough/challenging/uneven terrain	Hold a pre job meeting with all involved	□Use hearing protection
any:	Manual Digging	Exposure to loud noise	Utilize one call and pothole/daylight existing utilities BEFORE excavating	Use Lock out / Tag out procedures
nan/Supervisor:	Mechanical Digging	Overhead Utilities / Underground Utilities	Inspect excavations & complete report	□Yield for pedestrians & equipment
Address Phone # OC EMERGENCIES - DIAL 911 Current Weather:	□Manual Lifting	Suppended Loads / Swinging Loads	Barricade or mark areas of excavation	CReduce speed and drive defensively
Address Phone # OC EMERGENCIES - DIAL 911 Current Weather:	Mechanical Lifting (Crane)	Heavy Objects/ Back Injuries	Utilize protective systems (shoring/sloping)	Use of additional PPE (face shield, goggles, chaps etc.)
OR EMERGENCIES - DIAL 911 Current Weather:	Welding /Cutting/Grinding	Heavy Lifting Equipment	 Nobody permitted to enter unsafe excavations (ensure access/egress is provided) 	Inspection and color coding of electrical tools
OR EMERGENCIES – DIAL 911 Current Weather:	Hauling Equipment/Materials	Heavy Earthmoving Equipment	UValk with small steps, take time & watch footing	□ Inspect tools for signs of excessive wear/damage & replace if necessary
HREATENING INJURIES OR EMERGENCIES – DIAL 911 # Attending: Current Weather:	SettingMoving TimbersMats	Trenches/Excavations (Engulfment/collapse)	Never park a vehicle next to heavy equipment	
# Attending: Current Weather:	□ Coating	Asphyxiation / confined space hazards	Wear appropriate PPE at all times	Cinstall portable lighting in dark areas
# Attending: Current Weather:	□ Sandblasting	Silps, trips & falls – rough/slippery working surfaces	□Use taglines where appropriate	 Use bug spray or other means of pest control
	C Rigging	Possible hit/struck/crushed by moving trucks or equipment	Stay a minimum of 25 ft. from loads and equipment	Store cylinders upright, secured with the caps on and transport properly
Competent Person(s) (if applicable):	Cline-ups	Siings, Cables, Chains could break/fail	Use proper lifting techniques (lift with legs)	Identify and avoid polsonous plants
Who Will Transport Injured Personnel?	CEnd-facing/Beveling	Exposure to gamma emitting sources & x-ray	Stay clear of equipment when in operation	 Use spotter with warning device (air horn)
	Climbing to Higher/Lower Levels	Abrasive materials (eye injuries/skin abrasions)	Never stand/walk between two pieces of working equipment	Drink plenty of water, take cool down/warm-up breaks
	Backfilling	CMultiple pinch/crush points	□ Stay a minimum of 10 ft. from all power lines	Use GFCI's and proper grounding
	Set up traffic control / flagging ops	Compressed Gases	Utilize goal post system and spotters	Test the atmospheres for hazards
	Cell Phone use	Heat Stress/Hypothermia (Hot/Cold weather)	Elashback arrestors must be in place	Ensure proper ventilation
Topics Discussed:	Use of ladders	 Inclement Weather (Lightning/Rain/Snow/Fog/cv conditions) 	Ensure certifications are in place on all lifting equipment. devices and rigating	Wear sunscreen and appropriate clothing
	C Road Crossing	CFails from an upper level	Inspect pins and cables daily for problems	Never In with the teeth of buckets
	Loading/Offloading equipment/Materials	Without proper communication drill string can turn inadvertently causing pinched by/ struck by	Establish eye contact and intent with the operator of the equipment before approaching	Visually inspect the leads as they are being run out
Potential Site Hazards:	Installing shoring/trench box	Poisonous plants (Contact Dermatitis)	Stay on designated ROW	Ensure spill kit is readily available
Safety Recommendations:	Break connections apart to install or remove rods or tooling	Worn or damaged leads could cause shock or property damage	 Establish good communication between workers and drill operator before any onerations start 	Ensure hoses are properly connected and while-checks are in place
	Pumping	Uneven/unsecured or bulky loads	Only one person directing operator/driller	Inspect wear points on hoses/HDPE
	Lowering-in product	Environmental release/spill	Tremove potential ignition sources	and replace damaged/worn sections
	C Refueling	Overloading equipment – equipment failure	Secure ladders, & inspect to ensure they are not damaged	Ensure fall protection (tied-off/guard
Print Sign	Boring/Directional Drilling	Welding. cutting. burning tools (Fire Hazard)	ġ	rails/hand rails) are in place
	Pipe Entry	Chemical Burn/Thermal Burn	edestrian	 Erect barricades and ensure personnel are kept clear of test area
4 - - - -	Hydrolest product line	C Rotating tooling, pinched by, struck by		Do not place hands in the box or on the ends of the drill stem/pipe
	Changing out hydraulic components	Grinding tools - Flying Sparks and Debris	sa	
O Ma	Making wire connections	Cuts / Abrasions	Install back-up alarms/ensure alarms are working	Communicate with the railroad and ensure flagger protection is provided if
	Pre-heating	Electrical Shock Hazards / Induced Voltage	pipe	necessary – don't work within 25 feet without flagger protection!
	X-Raying	Safety Latch on rigging inoperable/missing	Position trailer on level terrain if possible	Stop work and take cover in inclement weather
	Purging line(s)	Uvorking near live railroad tracks (train traffic)	Set parking brake on vehicles & equipment	
		C Accidental Ignition	when not in use	



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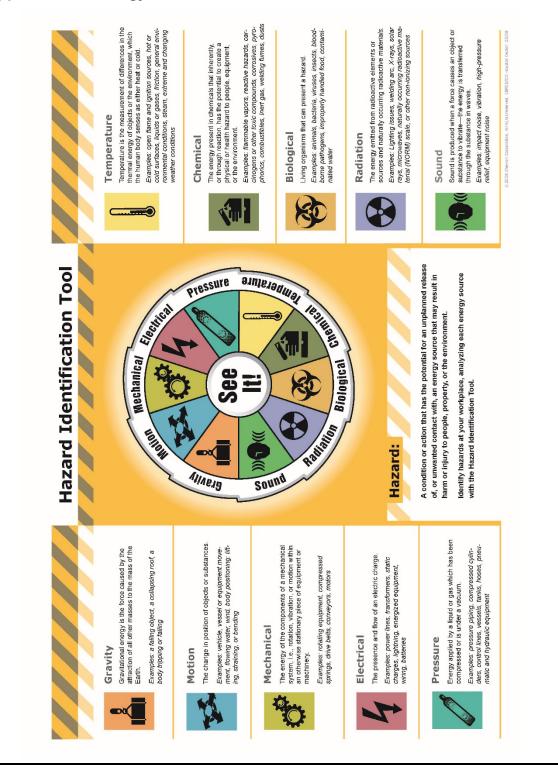
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Appendix B – Energy Wheel Hazard Assessment Tool





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Appendix C – Pre-Job Safety Meeting Scorecard

	Statement	Weight	True=1 False=0	Weighte d Score
	EXAMPLE	2	0	2*0=0
1	Everyone performing the job was present at the meeting	4		
2	The discussion was held as close to the work as reasonably possible.	4		
3	Work steps required to complete the job were identified and discussed.	4		
4	Necessary tools and equipment were identified and discussed.	3		
5	Hazards associated with the job were identified and discussed.	5		
6	Hazards posed by the environment or surrounding work were identified and discussed.	4		
7	Controls for each hazard were identified and discussed.	5		
8	All life-threatening hazards and their controls were emphasized.	5		
9	Hazards and necessary controls were documented.	3		
10	All required permits were obtained and reviewed.	3		
11	Potential changes were identified and discussed and a plan to address change was created.	4		
12	The importance of stopping work to address and unexpected change, disruption, or hazard was discussed.	4		
13	Emergency response plans were reviewed, including individual roles and responsibilities.	3		
14	Crew actively demonstrated their understanding of their work steps, hazards and controls.	3		
15	All crew members participated in the discussion by identifying hazards and controls.	3		
	Total Weighted Score (sum weighted scores for	r items 1 tł	nrough 15)	

Guidance on using this scorecard and rating a pre-job safety meeting follows.



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This page provides example characteristics of a high-quality pre-job safety meeting. This is not a comprehensive list and the observer should use their best judgement when scoring.

	Statement	Weight
	Everyone performing the job was	Everyone performing the planned task was present for the entire pre-job meeting.
1	present at the meeting	If working alone, plans were discussed with a manager, mentor, or co-worker.
-	The discussion was held as close	Meeting was held at or near where the work will be performed.
2	to the work as reasonably possible.	Workspace was reviewed by the crew before starting the meeting.
	Work steps required to complete	Crew identified and discussed the major work steps.
3	the job were identified and discussed.	Facilitator confirmed the major work steps and plans to address changes and provided corrections if necessary.
	Necessary tools and equipment	Crew identified and discussed tools and equipment needed to safely complete the work.
4	were identified and discussed.	Facilitator confirmed that the crew had all necessary tools and equipment.
5	Hazards associated with the job were identified and discussed.	Crew identified and discussed hazards associated with their tasks.
		Crew identified and discussed the hazards created by other crews.
6	Hazards posed by the environment or surrounding work were identified and discussed.	Crew discussed how hazards they create may impact other crews.
	ana discussed.	Crew identified and discussed hazards posed by the environment.
7	Controls for each hazard were identified and discussed.	Crew identified and discussed controls or management strategies associated with each identified hazard.
	All life threatening baranda and	Crew emphasized all hazards with the potential to cause serious injury or fatality.
8	All life-threatening hazards and their controls were emphasized.	Crew emphasized all controls for all hazards with potential to cause serious injury or fatality.
		Crew completed required pre-job documentation.
9	Hazards and necessary controls were documented.	Facilitator confirmed that pre-job documentation is readily accessible.



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	Statement	Weight
		Facilitator confirmed that all required work permits were
10	All required permits were obtained and reviewed.	obtained and readily accessible.
	Potential changes were identified	Crew identified and discussed possible changes to the work and work environment.
11	and discussed and a plan to address change was created.	Crew discussed the impacts of those changes on the safety.
40	The importance of stopping work to address and unexpected change,	Crew identified and discussed potential work conditions to use Stop Work Authority.
12	disruption, or hazard was discussed.	Crew discussed the protocol for using Stop Work Authority.
		Crew identified potential emergencies.
13	Emergency response plans were reviewed, including individual roles	Crew discussed the protocol to address emergencies.
10	and responsibilities.	Crew discussed individual roles and responsibilities during and emergency.
		Crew verbally acknowledged the hazards and controls.
14	Crew actively demonstrated their understanding of their work steps,	Crew demonstrated that they understand the safety expectations.
	hazards and controls.	Facilitator confirmed that the crew members understand their roles and responsibilities.
15	All crew members participated in the discussion by identifying hazards and controls.	Crew was active in the conversation by identifying hazards and controls, voicing comments or concerns, and providing specific details.

Source: Construction Safety Research Alliance: https://www.csra.colorado.edu/