

Live Event Stage Rigging Inspection Checklist

Site / Project	_____	Address	_____
Inspector name	_____	Company	_____
Date	_____	Time	_____

Documentation aid only. Adapt this resource to the site, manufacturer instructions, and applicable local requirements. It does not replace a competent person, professional judgment, legal advice, or a required statutory form.

Inspection checklist

Truss and Structure Integrity

☐	Verify that the truss load calculations are available on site and signed by a qualified structural engineer, accounting for all dynamic and static loads. (ANSI E1.1-2022 Section 9)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Confirm that the truss span does not exceed the manufacturer's specified limits for the applied load. Measure and document the span. (Manufacturer's Specifications)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Inspect all truss connection hardware (bolts, pins, couplers) for damage, corrosion, and proper installation. Verify correct grade and size. (ANSI E1.1-2022 Section 7)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Assess the roof structure's load-bearing capacity. Ensure it is adequate for the intended rigging loads, considering point loads and distributed loads. (Local Building Codes)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	If using ballast weights, verify the weight and securement method. Ensure they are properly rated and positioned to prevent tipping. (Best Practices)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	For ground-supported structures, check the stability of the base. Ensure proper leveling and anchoring to prevent movement. (ANSI E1.21-2013)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Evaluate the structure's resistance to wind and weather conditions. Implement appropriate measures for stabilization in adverse weather. (Local Weather Guidelines)	☐ Pass	☐ Fail	☐ N/A	Notes: _____

☐	Visually inspect all truss sections for signs of bending, cracking, or other structural damage. Remove any damaged sections from service. (ANSI E1.1-2022 Section 8)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Review all relevant documentation, including structural calculations, load charts, and inspection reports. Ensure they are current and accurate. (ANSI E1.1-2022 Section 5)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Verify that the rigging does not obstruct emergency exits or fire suppression systems. Maintain clear pathways for evacuation. (NFPA 101)	☐ Pass	☐ Fail	☐ N/A	Notes: _____

Chain Motors and Hoists

☐	Verify that the chain motor's load rating meets or exceeds the weight of the suspended load, including a safety factor of at least 5:1. (ANSI E1.6-1-2012)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Inspect the chain for wear, damage, and proper lubrication. Replace any chain with damaged or worn links. (ANSI E1.6-1-2012)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Test the upper and lower limit switches on each chain motor to ensure they function correctly. (ANSI E1.6-1-2012)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Verify the proper functioning of the chain motor's brake system. Ensure it holds the load securely when power is removed. (ANSI E1.6-1-2012)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Inspect all electrical connections for tightness and proper grounding. Ensure cables are protected from damage and strain. (NFPA 70)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Verify that the hoist suspension points are adequately rated and securely attached to the supporting structure. (ANSI E1.6-1-2012)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Inspect the chain bag for damage and proper attachment. Ensure it can adequately contain the chain without interference. (Best Practices)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Test the chain motor control system for proper operation, including individual and group control functions. (ANSI E1.6-1-2012)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Verify the functionality of the emergency stop button on the chain motor control system. (ANSI E1.6-1-2012)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Review the maintenance records for each chain motor. Ensure regular inspections and maintenance are performed according to the manufacturer's recommendations. (ANSI E1.6-1-2012)	☐ Pass	☐ Fail	☐ N/A	Notes: _____

Rigging Hardware and Accessories

☐	Verify that all shackles are rated for the intended load and are properly sized for the connecting hardware. (ASME B30.26)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Ensure that shackle pins are properly secured with cotter pins or other locking devices to prevent accidental dislodgement. (ASME B30.26)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Inspect wire rope slings for wear, kinks, corrosion, and broken wires. Remove any damaged slings from service. (OSHA 1926.251)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Verify that all slings are properly tagged with their load rating and identification information. (OSHA 1926.251)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Inspect turnbuckles for damage, corrosion, and proper thread engagement. Ensure they are locked to prevent loosening. (Best Practices)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Verify that eye bolts are properly installed and aligned with the direction of the load. Ensure they are fully seated and tightened. (ASME B30.26)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Inspect master links for deformation, cracks, and wear. Ensure they are properly sized for the connecting hardware. (ASME B30.9)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Ensure that all rigging hardware is compatible with each other and the suspended load. Avoid mixing different types of metals that could cause corrosion. (Best Practices)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Inspect soft goods (e.g., round slings, spansets) for cuts, abrasions, and chemical damage. Remove any damaged soft goods from service. (ASME B30.9)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Verify that rigging hardware is stored properly to prevent damage and corrosion. (Best Practices)	☐ Pass	☐ Fail	☐ N/A	Notes: _____

Flying Elements and Safeties

☐	Verify that all flying elements (lighting fixtures, speakers, scenery) have independent safety cables installed and properly secured to a separate structural member. (ANSI E1.4-2019)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Ensure that safety cables are rated to support at least 10 times the weight of the suspended element. (ANSI E1.4-2019)	☐ Pass	☐ Fail	☐ N/A	Notes: _____

☐	For critical elements, consider using a secondary suspension system in addition to the primary rigging. (Best Practices)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Inspect the attachment points on lighting fixtures and other suspended elements for damage and securement. (Manufacturer's Specifications)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Ensure that cables are properly managed and secured to prevent strain on connectors and tripping hazards. (Best Practices)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Verify the focus positions of lighting fixtures and ensure they are properly aimed and secured. (Best Practices)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Inspect speaker suspension systems for proper alignment and securement. Ensure that speakers are not overloaded. (Manufacturer's Specifications)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Verify that scenery elements are properly rigged and secured to prevent accidental movement or collapse. (Best Practices)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Test all motorized elements (e.g., moving lights, automated scenery) for proper operation and safety features. (ANSI E1.4-2019)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Verify adequate clearance between flying elements and other structures or personnel. (Best Practices)	☐ Pass	☐ Fail	☐ N/A	Notes: _____

Findings

#	Item	Location	Severity	Action required
1				
2				
3				
4				
5				
6				
7				
8				

Signature

Inspector signature _____

Name _____

Date _____