



STAGECRAFT 50.0599.00

TECHNICAL STANDARDS

An Industry Technical Standards Validation Committee developed and validated these standards on April 23 and May 30, 2025. The Arizona Career and Technical Education Quality Commission, the validating authority for the Arizona Skills Standards Assessment System, reviewed these standards on July 13, 2025.

Note: Arizona's Professional Skills are taught as an integral part of the Stagecraft program.

The Technical Skills Assessment for Stagecraft is available SY2025-2026.

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STANDARD 1.0 RECOGNIZE THE CRUCIAL ROLE OF STAGECRAFT IN THE SUCCESS OF A LIVE, STAGED PRODUCTION

- 1.1 Identify the technical aspects of live stage production (e.g., safety protocols; scenery construction and rigging; costuming, hair, and makeup; props/properties management; stage lighting; sound equipment; and stage management during rehearsals and performances)
- 1.2 Describe how design, planning, and execution are essential to successfully staging a live production
- 1.3 Use industry-standard stagecraft terminology
- 1.4 Identify the roles and responsibilities of stagecraft professionals

STANDARD 2.0 EMPLOY SAFETY PROTOCOLS AND PROCEDURES RELATED TO A LIVE, STAGED PRODUCTION

- 2.1 Recognize the risks and hazards associated with live, staged productions [i.e., set construction (heights, lifting, tools/equipment); special effects (pyrotechnics, fog and smoke machines, water effects); use of electricity (electrical shock, power outages, lighting equipment); sound equipment (excessive noise, trip hazards); costumes and makeup (allergic reactions, heat stress); stage movement (trap doors and pits, crowded spaces); emergency preparedness (fire safety, first aid); etc.]
- 2.2 Use personal protective equipment (PPE) appropriate for the task
- 2.3 Comply with OSHA safety standards and regulations [i.e., lifting practices, fall prevention and protection, fire safety, ladder safety, electrical safety, machine guarding, ergonomics, handling and storage of hazardous materials, safety data sheets (SDS), etc.]
- 2.4 Recognize the National Electrical Code (NEC) (e.g., guidelines for electrical design, installation, and inspection to protect people and property from electrical hazards)

STANDARD 3.0 DEMONSTRATE ESSENTIAL PRODUCTION TECHNIQUES RELATED TO SCENERY CONSTRUCTION AND RIGGING

- 3.1 Practice housekeeping and safety protocols and procedures related to scenery construction and rigging [i.e., use correct and appropriate personal protective equipment (PPE); clean, maintain, and properly store tools, equipment, and materials, apply correct verbal safety warnings while using counterweight systems, etc.]
- 3.2 Determine production design documentation as it applies to scenery construction and rigging (i.e., floor/ground plan, front elevation, rear elevation, paint elevation, sectional drawings, rigging plot, construction drawings, etc.)
- 3.3 Use appropriate industry-standard terminology to communicate clear expectations of the scenery construction and rigging process
- 3.4 Identify scenery construction and rigging materials, tools, techniques, and hardware (i.e., lumber, metal, fabrics, power tools, hand tools, measuring tools, fasteners, rigging hardware, etc.)
- 3.5 Perform construction techniques using materials, tools, techniques, and hardware appropriate for the task
- 3.6 Identify scenic painting materials, tools, techniques, and supplies (i.e., paints, primers, sealants, brushes, rollers, sprayers, drop cloths, painter's tape, cleaning supplies, etc.)
- 3.7 Apply fundamental scenic art techniques (i.e., painting, dry brushing, sponging, stippling, scumbling, spattering, graining, etc.)
- 3.8 Demonstrate safe stage production rigging practices [i.e., restricted access, signage, proficiency in knot tying (clove hitch, half hitch, bowline), counterweight systems, motorized systems, rigging hardware, equipment inspection and tracking, etc.]
- 3.9 Demonstrate the application of safety protocols, identification, and proper handling techniques for various types of soft goods used in stage productions (i.e., fire-resistant drapes and drops; legs, borders, scrims, drops, cyclorama, tabs, travelers, etc.)

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STANDARD 4.0 APPLY ESSENTIAL PRODUCTION TECHNIQUES RELATED TO COSTUME CONSTRUCTION

- 4.1 Practice housekeeping and safety protocols and procedures related to costume design and construction [i.e., work area maintenance, material storage, tool and equipment safety, personal protective equipment (PPE), safety signage, etc.]
- 4.2 Determine production design documentation as it applies to costume design and construction (i.e., script breakdown, character sheets, costume plots, fabric and material swatches, budget and financial projections, construction notes and patterns, schedules, contact information, etc.)
- 4.3 Use appropriate industry-standard terminology to communicate clear expectations of the costume measurement and fitting process (i.e., acquiring consent, measurement protocols, fitting sessions, alterations, quick change, costume parade, etc.)
- 4.4 Identify costume construction materials, tools, and hardware (i.e., fabric, interfacing, fabric shears, hot glue gun, sewing machine, dress form, needle and thread, safety pins, tape measure, iron and ironing board; zippers, elastic, buttons, and hooks; wire, EVA foam, etc.)
- 4.5 Apply appropriate costume construction techniques based on the type of material(s) being used
- 4.6 Demonstrate foundational sewing skills (i.e., machine sewing, hand sewing, blind hem stitch, French seam, buttonhole stitch, topstitching, basting stitch, whip stitch, running stitch, back stitch, zigzag stitch, etc.)
- 4.7 Explain symbols and markings on a pattern
- 4.8 Construct a costume using a pattern (i.e., read pattern symbols, adapt a pattern to a design, pattern layout, tracing and cutting, fitting adjustments, seam finishing, pattern matching, etc.)
- 4.9 Describe the process of cleaning, repairing, and maintaining costumes during and after the run of a production

STANDARD 5.0 APPLY ESSENTIAL PRODUCTION TECHNIQUES RELATED TO HAIR, MAKEUP, AND APPLICATION

- 5.1 Practice housekeeping and health and safety protocols and procedures related to hair and makeup application, and removal (i.e., allergies and sensitivities of performers, hygiene for hands and makeup supplies, personal makeup, care of makeup, wig maintenance, disinfecting haircare items, etc.)
- 5.2 Determine production design documentation as it applies to hair and makeup application, and removal (i.e., script breakdown, character sheets, makeup charts, hair and wig charts, production lists, application and removal protocols, budget and financial projections, schedules, maintenance instructions, supplier contact information, etc.)
- 5.3 Use appropriate industry-standard terminology to communicate clear expectations of the hair and makeup application and removal process (i.e., acquiring consent, patch test, sanitation protocol, application techniques, removal process, touchups, continuity, etc.)
- 5.4 Identify hair and makeup materials, tools, and equipment suitable for different hair styles, texture, and skin types (i.e., heat styling tools, combs and brushes, hair extensions and wigs, hair color products, foundation, concealers, primers, setting sprays, brushes and sponges, lip products, makeup mirrors, airbrush makeup kits, sanitation tools, makeup organizers, etc.)
- 5.5 Apply hair and makeup choices that complement both the character(s) and the performer in the production (i.e., foundation, lipstick, blush, eyeshadow, eyeliner, mascara, hair styling, wigs and hairpieces, etc.)

STANDARD 6.0 DEMONSTRATE ESSENTIAL PRODUCTION, ACQUISITION, AND UTILIZATION TECHNIQUES RELATED TO THE USE OF PROPERTIES

- 6.1 Practice housekeeping and safety protocols and procedures related to properties design, construction, acquisition, and utilization [i.e., use of personal protective equipment (PPE), weapon safety, prop tracking, prop etiquette, emergency preparedness, sanitation protocols, material storage, waste management, regular inspections, etc.]
- 6.2 Determine production design documentation as it applies to properties (i.e., properties plot, rental agreements, budget, etc.)
- 6.3 Use appropriate industry-standard terminology to communicate clear expectations of the properties design, construction, acquisition, and utilization process (i.e., prop list, prop plot, strike, load-in, load-out, tech rehearsal, blocking, cue sheet, prop master, scenic designer, fabrication, etc.)
- 6.4 Identify the materials, techniques, tools, and hardware used in the construction of properties (i.e., wood, metal, fabric, and plastics; carpentry, welding, sewing, and painting; saws, hammers, screwdrivers, sewing machines, paint brushes; etc.)
- 6.5 Construct or modify properties using materials, techniques, tools, and hardware appropriate for the task
- 6.6 Organize and maintain properties for the duration of a show (i.e., arranging props for easy access, inspecting props to ensure they are in good condition, making necessary repairs or replacements, storage, labeling, etc.)

STANDARD 7.0 DEMONSTRATE ESSENTIAL PRODUCTION, TECHNIQUES RELATED TO THE USE OF STAGE LIGHTING

- 7.1 Practice housekeeping and health and safety protocols and procedures related to stage lighting (i.e., follow safety guidelines for handling, operating, and maintaining lighting equipment; secure, organize, and regularly inspect for any faults or damage; wear appropriate protective gear and ensure proper ventilation to avoid overheating, etc.)
- 7.2 Determine production design documentation as it applies to stage lighting (i.e., lighting plots, cue sheets, equipment lists, maintenance schedules, special instructions for handling and operating the stage lighting equipment, etc.)

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- 7.3 Use appropriate industry-standard terminology to communicate clear expectations of the stage lighting process (i.e., intensity, color temperature, fade, spotlight, wash, beam angle, rigging, gel, follow spot, channel, DMX address, etc.)
- 7.4 Identify stage lighting fixture types and their uses (i.e., conventional vs. intelligent fixtures, halogen, ARC, LED, wash vs. spot, etc.)
- 7.5 Recognize basic principles of power compatibility and load distribution
- 7.6 Discuss major stage lighting protocols (i.e., DMX512, sACN, Art-Net, etc.)
- 7.7 Identify essential stage lighting accessories (i.e., barn doors, irises, top hats, gel frames, gobos, etc.)
- 7.8 Apply the fundamentals of hanging and focusing stage lighting instruments (i.e., circuiting and cable management, differentiating between power and data cables, etc.)
- 7.9 Apply the fundamentals of stage lighting board operation and addressing (i.e., parking, patching, cueing, differentiating between channels and addresses, effectively using faders and submasters, etc.)
- 7.10 Explore basic troubleshooting of stage lighting equipment (i.e., incorrect addressing, tripped circuit breaker, burned out lamp, etc.)

STANDARD 8.0 DEMONSTRATE ESSENTIAL PRODUCTION TECHNIQUES RELATED TO THE USE OF STAGE AUDIO

- 8.1 Practice housekeeping and health and safety protocols and procedures related to stage audio (i.e., electrical, rigging, follow safety guidelines for handling, operating, and maintaining audio equipment; secure, organize, and regularly inspect for any faults or damage; wear appropriate protective gear and ensure proper ventilation to avoid overheating, etc.)
- 8.2 Determine production design documentation as it applies to stage audio (i.e., stage plots, mic schedules, equipment labeling, etc.)
- 8.3 Use appropriate industry-standard terminology to communicate clear expectations of the stage audio process [i.e., gain, feedback, equalization (EQ), compression, reverb, delay, monitor mix, front of house (FOH), soundcheck, wireless systems, etc.]
- 8.4 Differentiate between various types of audio equipment, cords, and their specific uses (i.e., microphones, speakers, amplifiers, peripherals, etc.)
- 8.5 Identify the key components of a stage audio system (i.e., audio console, cabling connections, signal flow, differences between analog and digital audio systems, show control software, etc.)
- 8.6 Apply the fundamentals of operating a sound board and playback equipment (i.e., mixing audio signals, adjusting levels, applying effects, managing playback devices, etc.)
- 8.7 Apply the fundamentals of lavalier placement and use (i.e., acquiring consent, clipping into wigs, bodypack safety, mic tape, etc.)
- 8.8 Explore basic troubleshooting of stage audio equipment (i.e., patching, signal flow, power supply, batteries, etc.)

STANDARD 9.0 DEMONSTRATE ESSENTIAL PRODUCTION TECHNIQUES RELATED TO STAGE MANAGEMENT

- 9.1 Monitor and enforce all housekeeping, health and safety protocols, and procedures across the production team and cast
- 9.2 Manage stage equipment and systems during rehearsals and performances (i.e., set changes, rolling platforms, fly systems, rigging, turntables, etc.)
- 9.3 Develop an agenda for safety meetings for performers and crew members
- 9.4 Coordinate production meetings (i.e., identify stakeholders including crew and designers, take and distribute meeting notes, identify action items and responsible parties, etc.)
- 9.5 Determine and produce documentation as it applies to stage management (i.e., prompt book, daily reports, schedules, tracking documents, etc.)
- 9.6 Oversee the care and organization of performance spaces and work areas (i.e., booth, prop table, general backstage, etc.)
- 9.7 Establish and monitor proper backstage decorum (i.e., dressing room, workshops, wings, etc.)
- 9.8 Perform managerial tasks of rehearsals and performances (i.e., call times, blocking, line notes, rehearsal coordination, documentation, etc.)
- 9.9 Demonstrate how a show is called based on a prompt book (i.e., standbys, calling cues, communication, monitoring the live production, etc.)

STANDARD 10.0 PRACTICE MARKETABLE PROFESSIONAL SKILLS RELATED TO STAGECRAFT

- 10.1 Demonstrate key interpersonal skills required in a technical production environment (i.e., teamwork, collaboration, flexibility, problem-solving, respectful and clear communication, etc.)
- 10.2 Exhibit digital literacy skills related to stagecraft (i.e., detailed spreadsheets for budgeting, scheduling, and inventory tracking; documents professionally and consistently formatted; digital calendars for rehearsals, performances, and meetings; email that

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is clearly and professionally written with correct detail; social media platforms appropriately used to promote productions and engage with the audience, etc.)

10.3 Describe the purpose, function, content, and format of a professional portfolio

10.4 Create a professional résumé

10.5 Identify resources for acquiring and maintaining a stagecraft-related career (i.e., internships, post-secondary education opportunities including scholarships, unions and professional affiliations, workshops and training programs, networking events, social media platforms, etc.)