Instructional Framework

Stagecraft 50.0599.00

This Instructional Framework identifies, explains, and expands the content of the standards/measurement criteria, and, as well, guides the development of multiple-choice items for the Technical Skills Assessment. This document corresponds with the Technical Standards endorsed on January 25, 2018.

Domain 1: Production Staging Instructional Time: 25-35%	
STANDARD 2.0 APPLY ESSENTIAL PRODUCTION AND CONSTRUC	TION TECHNIQUES RELATIVE TO SCENERY
2.1 Practice shop and safety procedures (i.e., cleaning, maintaining equipment, storage of materials, etc.)	 Define personal protection equipment (PPE) Eye protection Ear protection Correct hazardous material storage and disposal Define Safety Data Sheets (SDS) First aid Visual safety inspection (i.e., clear workspace, guards, tables, fences, mounting/locks, cables and blades in good repair, etc.)
2.2 Explain production design documentation as it applies to scenery	 Floorplan/ground plan Front elevation Rear elevation Paint elevation Reading a ruler and a scale ruler
2.3 Select specific construction materials, techniques, tools, and hardware as necessary for the task	 Types of lumber Dimensional lumber Sheet lumber Types of hardware Drywall screws Box nails Bolts, nuts, and washers Types of tools Hand tools Power tool Pneumatic tools



2.4 Select appropriate scenic painting techniques and supplies	 Types of paint tools Types of paints Latex Acrylic Oil-based
2.5 Apply fundamental scenic painting techniques (i.e., thinning paint, scumbling, spattering, etc.)	Sponging, dry brush, scumbling, spattering, etc.Color mixing
2.6 Maintain proper care of tools and supplies	 Care of paint tools Proper storage of paint Care and storage of tools and shop materials
STANDARD 10.0 PERFORM TASKS NECESSARY TO SUPPORT THE	PRODUCTION
10.1 Demonstrate stage safety protocols	 Stage safety Pre- and post-production In production Proper lifting techniques
10.2 Operate various stage mechanics (i.e., rigging, turntables, hydraulics, etc.)	 Rigging Turntables Hydraulics
10.3 Load-in and strike production elements on stage	 Situational awareness PPE (workwear including lace-up closed toe shoes, eyes, ears, respiration, hard hats, gloves, etc.) Proper lifting and carrying techniques
10.4 Establish and use proper backstage decorum	 Appropriate clothing Being engaged in the production and process No phones backstage Limited talking Maintain clean and safe stage and wings
10.5 Implement the care and upkeep of the performance space and work areas	 Maintain clean and safe Shop Stage and wings Costume room and sewing lab Makeup room

 Green room House/Lobby

Domain 2: Production Control and Operations Instructional Time: 20-30%	
STANDARD 6.0 DEMONSTRATE SAFE RIGGING PRACTICES	
6.1 Practice all rigging and safety protocols (i.e., restricted access, signage proper training, etc.)	 Visual inspection of line set Call out, fly in, and fly out with response Load/Weight verification Listen for issues when running a line Stop if there are any issues Only trained personnel can operate counterweight system Trained personnel only signage
6.2 Demonstrate proficiency in clove-hitch, bowline, half-hitch, and snub knots	 Proficiency Clove-hitch Bowline Half-hitch Snub knots
6.3 Identify all types of counterweight systems (i.e., single and double purchase theatrical rigging systems)	 Parts and components of a counterweight system Counterweight systems Single purchase systems Double purchase systems
6.4 Distinguish between motorized rigging systems (e.g., packaged hoists, line shafts, and chain motors)	 Motorized rigging systems (e.g., packaged hoists, line shafts, and chain motors)
6.5 Identify appropriate rigging hardware	 Wire rope Wire rope clamps Shackles Carabiners Wire rope sleeves Thimbles Slings Turnbuckles Cheese boroughs

STANDARD 8.0 DEMONSTRATE PRODUCTION LIGHTING TECHNIQUES	
8.1 Practice appropriate safety lighting protocols, including electrical, rigging, etc.	 PPE (workwear including lace up closed toe shoes, gloves, etc.) Safe working height and tool safety at heights Electrical safety Conductors vs. insulators Disconnect and lockout/tagout Test (multimeter) continuity and circuit Known maximum loads (such as lighting fixtures per circuit)
8.2 Apply Ohm's law	Ohm's Law when solving for power. $\begin{array}{c} & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ $
8.3 Identify lighting instruments and their uses (i.e., PAR, Strip, Scoop, House lights, Work lights, etc.)	 Identify instruments by use - conventional vs. LED formats Ellipsoidal Fresnel PAR/Multi-PAR Far Cyc Automated lights/other devices
8.4 Recognize major lighting protocols (i.e., DMX512, sACN, Art-Net, etc.)	Major lighting protocols (i.e., DMX512, sACN, Art-Net, etc.)
8.5 Maintain conventional lighting equipment (i.e., Fresnel, Ellipsoidal, PAR, etc.)	 Cleaning lenses Inspecting and repairing electrical cords Inspect ceramic base/terminal blocks inside fixtures Inspecting and repairing strain reliefs

8.6 Apply the fundamentals of lighting board operation and addressing	 Patch Conventional instruments Multi address/attribute instruments Recording and editing cues (cue mode and tracking mode) Park Control protocols (LTP/HTP)
8.7 Explain lighting plot design documentation as it applies to lighting	 Light plot Key Industry standard symbols Magic sheet Cue sheets Schedules Dimmer Channel Color Instrument
8.8 Hang and focus lighting instruments, including cabling	 Hang and focus lighting instruments Optimizing the field Shutter and beam Cable management Safety cabling
8.9 Identify basic lighting accessories (i.e., barn doors, irises, top hats, gel frames, gobo, etc.)	 Barn doors Irises Top hats Gel frames Gobo Safety cables
STANDARD 9.0 DEMONSTRATE BASIC PRODUCTION AUDIO TECH	NIQUES
9.1 Employ safety protocols, including electrical, rigging, etc.	 Ohm's Law Safe decibel levels Rigging practices including appropriate hardware
9.2 Distinguish among microphones, speakers, amplifiers, and peripherals	 Microphones Dynamic Condenser

	 Pickup patterns Common types including lavalier, boundary, hanging, held Speakers Active, passive, monitor, main, full range, subwoofer Peripherals Effects, recording, communication, hearing assist
9.3 Operate an audio system (i.e., console, cabling connection, and signal flow)	 Signal path - input, processing, amplification, output Console Channel control Output control Main Aux Phantom power Types of cables and uses Types of connectors and uses
9.4 Interpret production documentation as it applies to audio	 Sound plot Block diagram Understand basic universal electrical symbols Title block Amplifier Speaker Cue sheets
9.5 Utilize playback software	Define production playback software and capability

Domain 3: Theatrical Production Techniques

Instructional Time: 15-25%

STANDARD 3.0 DEMONSTRATE BASIC PRODUCTION TECHNIQUES RELATIVE TO COSTUMES

3.1 Practice shop and safety protocols as they apply to fitting and adjusting costumes (i.e., sewing, ironing, etc.)	 First aid Hygienic maintenance Clean and orderly work area Chemical handling and storage Hot plate/iron and steamer safety
3.2 Explain production design documentation as it applies to costumes	Costume plotRenderings/Sketches

	SwatchesMeasurement sheets
3.3 Interpret a pre-made pattern to construct a costume	 Pattern symbols Grain line Fold line Centre front or back Seam allowance Stitching line Darts Buttons and buttonhole Dots Notches Fittings
3.4 Identify costume construction materials, tools, and hardware	 Needles Thread Measuring tools Seam gauge Flexible measuring tape Seam ripper Fabric Marking Chalk Fabric markers Fabric pencils Pins Thimble Buttons Iron Ironing board Steamers Scissors (fabric) Sewing machine Bobbin Hand wheel Presser foot Take-up lever Foot pedal Reverse stitch

3.5 Apply appropriate construction techniques based on the type of fabric	 Basic hand stitches Running stitch Back stitch Whip stitch
3.6 Organize quick changes, costume repairs, and general maintenance through the run of a show	 Costume plot Emergency sewing kit backstage Sort/Organize costumes Daily hygienic maintenance
STANDARD 4.0 DEMONSTRATE BASIC PRODUCTION TECHNIQUES	S RELATIVE TO MAKEUP
4.1 Practice shop safety and health protocols as they apply to the application and removal of makeup (i.e., hygiene for hands and makeup supplies, personal makeup, care of makeup, etc.)	 Cross contamination prevention No sharing tools No sharing makeup Asking about or checking for allergies to materials
4.2 Explain production design documentation as it applies to makeup	RenderingsMakeup plot
4.3 Select appropriate makeup materials, tools, and equipment	 Brushes Sponges Crepe hair Latex Spirit gum/Spirit gum remover Prosthetic adhesive Putty (derma wax)
4.4 Select makeup choices appropriate to the character(s) in the production (i.e., foundation, lipstick, blush, eyeshadow, etc.)	 Creme based, pancake, greasepaint Highlights Shadows/Lowlight Stippling Prosthetics
STANDARD 5.0 DEMONSTRATE BASIC PRODUCTION, CONSTRUCT	TION, AND ACQUISITION RELATIVE TO PROPERTIES
5.1 Practice shop safety and personal protocols as they apply to production construction and acquisition	 PPE (i.e., workwear including lace up closed toe shoes, eyes, ears, lungs, gloves, etc.) Correct hazardous material storage and disposal Safety Data Sheets (SDS) First aid

5.2 Explain production design documentation as it applies to properties	 Visual safety inspection (i.e., clear workspace, guards, tables, fences, mounting/locks, cables and blades in good repair, etc.) Prop list (pull, build, borrow, buy, or rent) Prop plot (shift or tracking)
5.3 Select construction materials, techniques, tools, and hardware as needed	 Materials including but not limited to Food Wood Fabric Foam Plastic Tools including but not limited to Glue gun Heat gun Hot wire foam cutter Paint tools Rotary tool
5.4 Organize and maintain properties table for the run of a show	 Putting props where they are needed based on production needs Proper marking of a prop table/cabinet Inventory/Securing valuable props

Domain 4: Production Foundations

Instructional Time: 10-15%

STANDARD 1.0 RECOGNIZE STAGECRAFT FUNDAMENTALS THAT MAKE A PRODUCTION SUCCESSFUL

1.1 Identify the technical aspects of theatrical production (e.g., constructing and rigging scenery; hanging and focusing of lighting; design and procurement of costumes; make-up; stage management; audio engineering; and procurement of props)	 Constructing and rigging scenery Hanging and focusing of lighting Design and procurement of costumes Makeup Stage management Audio engineering Procurement of props
1.2 Describe the production process in terms of strategies, implementation, and execution	 Pre-production Artistic/Director concept

	 Actively building the show Rehearsal procedures Production run Running crew responsibilities Post-production Strike
1.3 Identify the technical roles and their responsibilities to the production process	Theatre hierarchy
1.4 Explain the relationship between a design and planning and executing a production to its fruition	 Relationship between a design and planning and executing a production to its fruition
1.5 Communicate using technical production terminology	Communicate using technical production terminology
STANDARD 7.0 CHARACTERIZE TYPES OF SOFT GOODS EMPLOY	ED BY THEATERS
7.1 Practice safety and personal protocols as they apply to soft goods	 Flame retardancy/proofing Proper hanging of soft goods Rehearsal and performance trim height
7.2 Appraise fundamental types of soft goods (e.g., legs, borders, scrims, drops, cyclorama, and traveler)	 Legs Borders Scrims Drops Cyclorama Traveler
7.3 Apply appropriate handling, hanging, and folding techniques for drapes	 Drapes appropriate Handling Hanging Folding techniques
STANDARD 12.0 EMPLOY SAFE PRACTICES AND PERSONAL PROT	TECTION
12.1 Use personal protective equipment (PPE) for the task	 Eye and face Respiratory protection Head protection Foot and leg protection Hand and arm protection Body protection Hearing protection

12.2 Inspect ladders at frequent intervals for safety	 Proper footing Use of correct ladder height for task Duty rating (weight and classification)
12.3 Follow safe practice codes of fall protection for heights above 7.5 feet	 For use with scaffolding and/or lifts, use proper harnessing based on task
12.4 Identify key components within the SDS	 Identification Hazards identification Composition/Information on ingredients First-aid measures Firefighting measures Accidental release measures Handling and storage Exposure controls/Personal protection Physical and chemical properties Stability and reactivity Toxicological information
12.5 Recognize risk associated with production (i.e., set construction, special effects, electrics, etc.)	 Proper bracing Recognizing spike marks Securing loose cables Fire safety Chemical safety Material cleanup Darkness
12.6 Demonstrate safe handling and storage of materials	 Identification Hazards identification Physical and chemical properties Stability and reactivity

Domain 5: Professionalism Instructional Time: 5-10%	
STANDARD 11.0 PRACTICE MARKETABLE PROFESSIONAL SKILLS	
11.1 Exhibit computer literacy as related to technical production reports	SpreadsheetsWord processing

	Document sharingEmail
11.2 Develop a technical production portfolio and résumé	Portfolio specific to area
11.3 Assemble a toolkit with essential hardware (i.e., crescent wrench, box cutter, meters, screwdrivers, pliers, etc.)	 Assemble a toolkit with essential hardware relative to specific area
11.4 Identify social networks to appropriately further your career	Social networks to appropriately further your careerAppropriate postings and profile
11.5 Characterize the role of unions and professional affiliations as they relate to theater and related industries	 Role of unions and professional affiliations as they relate to theater and related industries
11.6 Research job, internship, and higher/continuing education opportunities, including scholarships in technical production	 Research job, internship, and higher/continuing education opportunities, including scholarships in technical production

