

IATSE Local 13 List Advancement Study Guide 2018

Journeyman – B List

The following is not test questions but rather topics and terms to be familiar with and do some research on. Not all topics may be on your test. Not all tested terms are on this study guide. The same topics are covered on all levels of the test while the questions differ in their complexity and depth.

A list of supplemental links and books is available on the Local 13 website.

Stage Vocabulary, Stage Rigging, Properties and Safety

- Able to identify and tie most commonly used knots: bowline, clove hitch, truckers hitch, prusik, half hitch, etc.
- Styles of truss and ways to connect its sections, tools and hardware needed
- Ways truss is hung or ground supported, hardware needed: spansets, cable picks, deck chain, quick links, burlap, beam clamps, etc.
- Chain hoist rigging
- Chain hoist control and operation
- Arena floor markings
- Bridle rigging and communication between ground riggers and up riggers
- Traditional soft good types, scrim, traveler, cyclorama, house curtain.
- West coasting
- Types of theatrical counter weight systems and its parts: arbor, system pipe, line-set, mule block, loft block, head block, tension block, sheaves, breasting line, spreader plates, trim chain
- Identify types of chain and its usage limitations: jack chain, safety chain, sash chain, deck chain, steel chain, quick links
- How to operate and properly weigh a theatrical counterweight system
- Pin rail and spot lines, dead hung scenery
- Hardware needed to rig scenery onto a batten and its proper use: wire rope, shackles, crimps/swages, turnbuckles, hanging irons, cleats, wire clips, thimble, batten clamps, etc.
- Identify standard pipe clamps and their proper use
- Traditional stage configurations: proscenium, thrust, arena/in the round, alley, black box
- Traditional theater house locations: grid, fly floor, crossover, loading rail, orchestra pit, FOH, backstage, trap room, wings, etc.
- Stage directions: Upstage, downstage, stage left, stage right, plaster line, on stage, off stage, down left, up right, etc.
- MSDS Sheets
- Scale drawings and how to read them

- Proper use of personnel lifts, extension ladders, A-Frame ladders, fall arrest equipment and body harnesses
- Proper fire extinguisher use
- Fork lift operation concepts
- Working Load Limits
- Backline
- Spike marks

Lighting and Electrics

- Identify cable types and proper use, connector types, proper coiling
- L6-20, Cam-Lock, Stage-pin, Edison, RJ45, etc.
- Identify common light fixture types: fresnel, ellipsoidal, Par, followspot, LED, striplight, etc.
- Identify common fixture positions: groundrow, balcony rail, box booms, electrics numbering, catwalks, booms, ladders, floor plates, etc.
- 3-Phase power
- Lighting accessories: gel, gobos, top hats, color extenders, barn doors, side arms, doughnuts, etc.
- AC vs. DC current
- Multimeter/voltmeter use
- Safety around electricity
- Reading a light plot
- Ohm's Law and basic power formula calculations
- Control networks and data protocols, patch
- Parallel vs. Series circuits
- Overcurrent protection devices
- Wiring color code and tie in procedure
- Lamp types and their basic properties, incandescent, fluorescent, arc, etc.
- Followspot operation general concepts
- Light fixture hang and focus general concepts

Sound and Audio-Visual

- Common microphone types
- Identify cable types and proper use, connector types for audio and video: BNC, DVI, VGA, S-Video, Cat 5, Cat 6, Coax, Composite, Fiber optic, HDMI, NL4, SpeakON, RCA, 1/4in, XLR, 1/8in.
- General concepts of sound mixing
- Acoustic feedback
- Mono vs. Stereo
- Gain structure
- Phantom power
- VCAs, dB, EQ, Graphic Equalizer, frequency, transducer
- Acoustic compression and rarefaction

- General concepts of projection: keystoneing, distance vs. brightness, rear vs. front projection, lens types, video switcher, video repeater
- Proper way to handle fiber optic cable

Unionism

- National labor organizations
- International IATSE
- Union officer positions: Steward, BA, President, Secretary, Financial, etc.
- Executive board
- Local 13 Dispatch Rules, elections
- Local 13 Constitution
- Employer vs. employee responsibilities
- Robert's Rules of Order
- Local contracts
- Negotiations

Wardrobe, Costumes and Wigs

- Identify types of stitches
- Identify common fastener types
- Identify common tools
- Basic sewing machine operation and concepts
- Quick change order
- Proper ways to launder or iron various garments
- Garment maintenance
- Common types of fabrics and their qualities
- Symbols used on garment tags
- Ways to secure wigs or hair pieces onto a performer
- Wig maintenance
- Dyes and safety
- Types of garment and common period pieces
- Job titles in the costuming industry

Carpentry

- Identify common hand and power tools
- Identify rigging hardware
- Identify common fastener types
- Identify common wood joints: miter, butt splice, dove tail, dado, Mortise and Tenon, scarf, lap, etc.
- PPE relevant to working in Scene Shop and Paint Shop: Gloves, safety glasses, face shield, welding helmets, welding gloves, ear plugs, hard hats, self retracting life line, respirators, etc.