



**IATSE** Local 346

## **Journeyman's Exam Study Guide**

Updated: January 2010

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### **There are Five Basic Sections on the Journeyman's Exam:**

Operation of a theatre fly system  
Hanging and focusing lights  
Sound equipment  
Followspot operation  
Rigging

Unlike the written, multiple choice Apprentice exam, the Journeyman's exam is practical and hands on. Examiners will ask the candidate to perform tasks in each area, and question the candidate about the work that is being performed. This exam is likely to take two hours or more to complete.

### **Operation of a Theatre Fly System:**

The candidate should be familiar with all parts of a counterweight rigging system, and be able to operate such equipment safely. Here are some terms to know:

|                            |                            |                  |
|----------------------------|----------------------------|------------------|
| Batten                     | Tension pulley             | 'Rolling' a drop |
| Arbor                      | Sheave (pronounced 'shiv') | Cyclorama        |
| Lift line, aircraft cable  | Lock                       | Leg              |
| Trim chain                 | Rail                       | Border           |
| Counterweight              | Loading gallery            | Scrim            |
| Grid                       | Snub line                  | Blackout         |
| Loft block                 | Bull line                  | Traveler         |
| Purchase or operating line | Marrying chain             | Dead hang        |
| Head block                 | Opera clamp                |                  |

### **Hanging and Focusing Lights:**

The candidate should be able to hang lights on a batten and focus them. You will need to know the difference between major types of lighting equipment. You will need to know how to circuit a light so that it is connected to a source of power. It may be necessary to do some basic circuit troubleshooting. The candidate should be familiar with these terms:

|             |                         |                 |
|-------------|-------------------------|-----------------|
| 26° fixture | Fresnel                 | Shutter         |
| 36° fixture | Gobo, pattern, template | Source Four Par |
| Barrel      | Hot spot                | Spot/flood      |
| C-Clamp     | Jumper                  | Tilt            |
| Color       | Leko                    | Twist lock      |
| Color frame | Pan                     | Work light      |
| Donut       | Par Can                 | Yoke            |
| Ellipsoidal | Pin connector           |                 |
| Flag        | Sharp/soft focus        |                 |

## Sound Equipment:

The candidate will not necessarily be asked to run any sound equipment, but will be asked some general questions about sound, sound equipment, and how various parts of a system are related. It will be helpful to have an understanding of the concept of signal path, and to understand how that term relates specifically to theatre sound equipment. The candidate should be familiar with the following terms:

|                |                       |             |
|----------------|-----------------------|-------------|
| Balanced input | Mixing board          | Line level  |
| Cable          | Outputs               | DI          |
| Crossover      | Pad                   | 0dB         |
| Equalizer      | Slider, pot           | Impedance   |
| Feedback       | Speaker, PA           | Frequencies |
| High end       | Sub                   | Grounding   |
| Horn           | XLR plug              | Delay       |
| Low end        | Transformer isolation |             |
| Microphone     | Mic level             |             |

## Followspot Operation:

The candidate will be asked to operate one or more followspots and to demonstrate a proficiency in this area. Here are some terms that may be discussed:

|                          |               |          |
|--------------------------|---------------|----------|
| Ballyhoo                 | Dowser        | Pan      |
| Color changer, boomerang | Drag          | Stripper |
| Color frame              | Home position | Trombone |
| Color frame numbering    | Iris          |          |

## Rigging:

No climbing is required. Candidates will be asked to put together one or more 'rigs' in accordance with standard rigging markings chalked on the floor. You will need to understand the use of common rigging symbols and equipment. Here are some terms to understand:

|  |                               |
|--|-------------------------------|
| Bag  | Steel                         |
| Bowline  | Stinger, down leg             |
| Bridle   | Thimble                       |
| Choke  | Two-ton motor                 |
| Dead hang  | Up rigger                     |
| Deck chain                                       | Working shackle, free shackle |
| Ground rigger                                    | Color code                    |
| Klein tool                                       | Red, five foot                |
| One-ton motor                                    | White, ten foot               |
| Rigging rope                                     | Blue, twenty foot             |
| Shackle and its parts: bell, pin, knuckle or hub | Green, thirty foot            |
| Spanset  | Yellow, fifty foot            |