

Teacher Assessment Blueprint

Audio-Visual Communications Technology



Test Code: 5904 / Version: 01

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## General Assessment Information

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**Test Type:** The Audio-Visual Communications Technology assessment is included in NOCTI's Teacher assessment battery. Teacher assessments measure an individual's technical knowledge and skills in a proctored proficiency examination format. These assessments are used in a large number of states as part of the teacher licensing and/or certification process, assessing competency in all aspects of a particular industry. NOCTI Teacher tests typically offer both a written and performance component that must be administered at a NOCTI-approved Area Test Center. Teacher assessments can be delivered in an online or paper/pencil format.

**Revision Team:** The assessment content is based on input from subject matter experts representing the following states: Connecticut, New Jersey, New York, and Pennsylvania.



10.0201- Photographic and Film/Video Technology/Technician and Assistant



Career Cluster 3- Arts, A/V Technology, and Communications



27-4011.00- Audio and Visual Equipment Technicians



**NATIONAL COLLEGE CREDIT RECOMMENDATION SERVICE**  
University of the State of New York - Regents Research Fund

In the lower division baccalaureate/associate degree category, 6 semester hours in Photography, Audio-Video Production, Audio-Video Communications, Scriptwriting, Video Production or Auto Production.

## Written Assessment

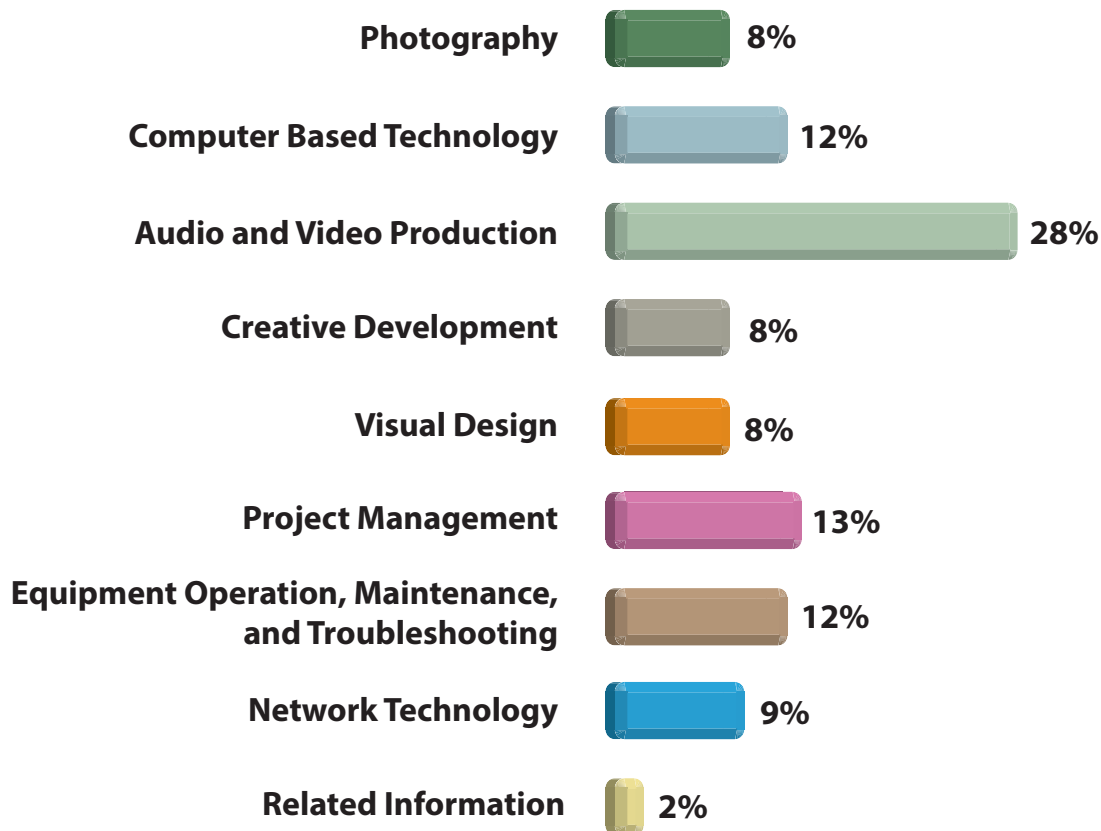
NOCTI written assessments consist of questions to measure an individual's factual theoretical knowledge.

**Administration Time:** 3 hours

**Number of Questions:** 172

**Number of Sessions:** This assessment may be administered in one, two, or three sessions.

### Areas Covered



## Specific Standards and Competencies Included in this Assessment

### Photography

- Operate an SLR (single lens reflex) still camera and peripherals (traditional and/or digital)
- Produce finished prints
- Control lighting, exposure, and composition
- Select and use correct film, film speed, and/or megapixel resolution (shutter and aperture)

### Computer Based Technology

- Identify and operate computer and related peripheral devices
- Create and manipulate sound and images with application software
- Prepare images for appropriate output
- Identify various media options (e.g., slides, .jpeg, .tiff, .wmv)
- Use basic software applications (e.g., word processing, database, spreadsheet, presentation)

### Audio and Video Production

- Operate video camera, camcorder, and peripheral equipment
- Select, set up, and operate sound reinforcement equipment, including microphones
- Edit video clips
- Write the script
- Identify and incorporate sound and special effects
- Record and mix audio
- Engineer audio and video
- Select, cast, and direct talent
- Light, direct, and produce the final project



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## Specific Standards and Competencies (continued)

### **Creative Development**

- Determine client objectives
- Develop creative outline
- Present and select media options
- Create and present the storyboard and script
- Develop, present, and evaluate a proposal/project

### **Visual Design**

- Apply principles and elements of design
- Select and design for a specific media
- Apply principles of animation

### **Project Management**

- Develop and efficiently utilize production schedules and personnel
- Prepare and manage the production budget and resources
- Communicate effectively with client and production team
- Maintain quality control
- Follow copyright, licensing, and broadcast laws



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## Specific Standards and Competencies (continued)

### Equipment Operation, Maintenance, and Troubleshooting

- Identify and safely use basic hand tools
- Follow safety guidelines for personnel and equipment operation
- Perform preventive maintenance and troubleshooting
- Install and upgrade computer software
- Perform hardware upgrades to computer equipment
- Interpret equipment specifications

### Network Technology

- Utilize network technology, web browsers, and network tools
- Effectively utilize search engines
- Identify uses of network protocols related to audio/visual transmission
- Plan and create a Web page incorporating hypertext links and URLs

### Related Information

- Demonstrate knowledge of basic concepts of digital television, video, and audio
- Demonstrate knowledge of basic concepts of web, video, and audio conferencing



## Sample Questions

**The term “rule of thirds” applies to**

- A. F-stops
- B. composition
- C. using a tripod
- D. bracketing exposure

**Physical computer equipment is called**

- A. software
- B. hardware
- C. input-output
- D. storage

**In a video script, the camera shots are**

- A. in italics and single spaced
- B. capitalized and single spaced
- C. lower case and double spaced
- D. in italics and double spaced

**A demo reel can be very effective when it**

- A. contains several special effects
- B. only showcases content produced for high-profile clients
- C. contains programs produced for other clients in similar business
- D. uses more than one narrator

**Every web page should be optimized to open quickly**

- A. on any type of connection
- B. only on a high-speed connection
- C. showing animated graphics
- D. playing a continuous audio track

## Performance Assessment

NOCTI performance assessments allow individuals to demonstrate their acquired skills by completing actual jobs using the tools, materials, machines, and equipment related to the technical area.

**Administration Time:** 3 hours

**Number of Jobs:** 3

### Areas Covered:

#### 34% Audio-Visual Editing

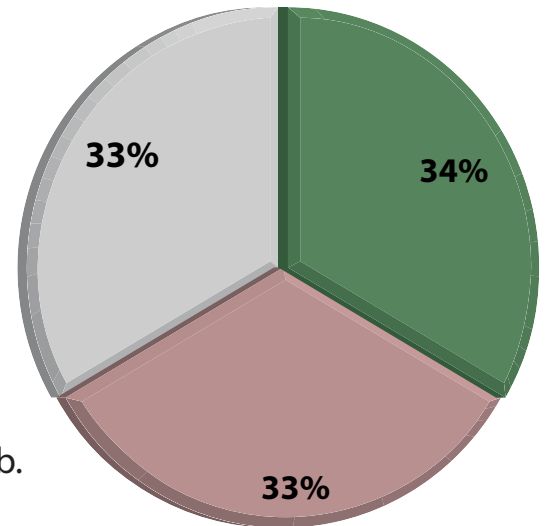
Import footage to editing software, export as QuickTime Movie, edit scene, and time to complete job.

#### 33% Videography

Prepare master tape, set up video equipment, shoot a video, and time to complete job.

#### 33% Engineering and Troubleshooting

Check cable for continuity, measure AC line voltage, set up monitor, connect power and cables, adjust monitor controls, and time to complete job.





## Sample Job

### Engineering and Troubleshooting

**Maximum Time:** 30 minutes

**Participant Activity:** The participant is to demonstrate how to check the cable for continuity, measure AC line voltage using a test meter, set up monitor for optimum viewing, connecting power and signal source cables, and using a signal generator or a test tape, adjust the following controls to produce the most accurate image possible.

