General Assessment Information

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.

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

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

O*NET
27-4011.00- Audio and Visual Equipment Technicians

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.
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

- **Photography:** 8%  
- **Computer Based Technology:** 12%  
- **Audio and Video Production:** 28%  
- **Creative Development:** 8%  
- **Visual Design:** 8%  
- **Project Management:** 13%  
- **Equipment Operation, Maintenance, and Troubleshooting:** 12%  
- **Network Technology:** 9%  
- **Related Information:** 2%
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

(Continued on the following page)
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
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
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 Quick Time 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.