



Television Broadcasting II

EXAM INFORMATION

Items

33

Points

48

Prerequisites

TELEVISION BROADCASTING I

Grade Level

11-12

Course Length

ONE SEMESTER

Career ClusterARTS, A/V TECHNOLOGY, AND
COMMUNICATION**Performance Standards**

INCLUDED

Certificate Available

YES

DESCRIPTION

Television Broadcasting is designed to provide students with the advanced knowledge and skills related to the television broadcasting industry. Topics include camera operation, audio systems, lighting systems, pre-production, studio operations, control room operations, visual effects and graphics, and copyright laws.

EXAM BLUEPRINT

STANDARD**PERCENTAGE OF EXAM**

1- Camera Operation	21%
2- Audio Systems	17%
3- Lighting Systems	12%
4- Pre and Post Production	6%
5- Knowledge of Studio Operation	16%
6- Control Room Operations	12%
7- Visual Effects and Graphics	4%
8- Television Standards	6%
9- Copyright laws and Ethics, and Legal Issues	6%
10- Professional Skills for the Workplace (Optional)	



STANDARD I

STUDENTS WILL UNDERSTAND AND DEMONSTRATE KNOWLEDGE OF THE CORRECT OPERATION OF THE CAMERA

- Objective 1 Basic parts of a camera
1. Image Sensor (CCD/CMOS)
 2. Lens
 3. Body
 4. Viewfinder
 5. Capture Devices

- Objective 2 Camera movements
1. Pan
 2. Truck
 3. Dolly
 4. Art
 5. Pedestal
 6. Tilt

- Objective 3 Picture composition (Framing)
1. Rule of thirds
 2. Nose room
 3. Headroom
 4. Lead room
 5. Two shot
 6. Three shot

- Objective 4 Shot selections
1. Wide or long (LS)
 2. Medium (MS)
 3. Close up (CU)
 4. Extreme close up (ECU)
 5. Over-the-shoulder (O/S)
 6. Cross shot (XS)

- Objective 5 Camera operation
1. Focus
 2. White balance
 3. Exposure
 1. Iris (F-Stop)
 2. Shutter Speed
 3. Gain
 4. Depth of Field
 5. Zoom



Objective 6 Camera Support

1. Tripod
2. Monopod
3. Jib
4. Steadicam

Objective 7 Teleprompter

Standard 1 Performance Evaluation included below (Optional)

STANDARD 2

STUDENTS WILL BE ABLE TO UNDERSTAND AND DEMONSTRATE KNOWLEDGE OF AUDIO SYSTEMS AND HOW THEY ARE USED

Objective 1 Microphones

1. Pickup patterns
 1. Omnidirectional
 2. Unidirectional
 3. Bidirectional
 4. Hyper cardioid
 5. Cardioid
2. Transducers
 1. Dynamic
 2. Condenser (additional power source)
 3. Ribbon
3. Microphone types
 1. Lavalier
 2. Handheld (stick)
 3. Shotgun/Boom
4. Filters
 1. Pop filter
 2. Wind Screen
 3. Wind Sock

Objective 2 Audio Mixer parts

1. Mic/line Inputs
2. Mic/line faders
3. VU Meter
4. Master Fader
5. Line Out
6. Pot (potentiometer)
7. Pan (left/right panning)

Standard 2 Performance Evaluation included below (Optional)



STANDARD 3

STUDENTS WILL UNDERSTAND AND DEMONSTRATE KNOWLEDGE OF LIGHTING SYSTEMS AND HOW THEY ARE USED

- Objective 1 Principles of Lighting
1. Triangle or three-point lighting
 2. Key (Spot)
 3. Back or Halo (Spot)
 4. Fill (Flood)
- Objective 2 Lighting instruments and accessories
1. Spot (direct)
 2. Fresnel (direct)
 3. Flood (diffused)
 4. Filters
 5. Reflectors
 6. Barn doors
 7. Quartz lamps
 8. LED
- Objective 3 Lighting
1. Base lighting
 2. Light measurement (lux and footcandles)
 3. Color temperature (Kelvin)
 1. Outdoor 5600K
 2. Indoor 3200K
 4. Chroma key
 5. Gels
 6. Situation Lighting
 7. Background
 8. Falloff
 9. Silhouette

Standard 3 Performance Evaluation included below (Optional)

STANDARD 4

STUDENTS WILL UNDERSTAND AND DEMONSTRATE KNOWLEDGE OF PRE- AND POST-PRODUCTION

- Objective 1 Preproduction meeting
- Objective 2 News Package
1. A-roll (Sound bites)
 2. B-roll



3. Voice over
4. Cut-aways
5. Reporter Stand-Up
6. Scripting
7. Logging
8. Editing

Objective 3 Script

Objective 4 Rundown

Objective 5 Studio preparation

Standard 4 Performance Evaluation included below (Optional)

STANDARD 5

STUDENTS WILL UNDERSTAND AND DEMONSTRATE KNOWLEDGE OF STUDIO OPERATION

Objective 1 Crew responsibilities

1. Floor director
2. Camera operator
3. Talent

Objective 2 Connectors

1. BNC
2. HDMI
3. Mini (1/8")
 1. Stereo/Mono
4. 1/4"
 1. Stereo/Mono

Objective 3 Cables

1. Balanced (three wire)
2. Unbalanced (two wire)

Objective 4 Post Production Evaluation

STANDARD 6

STUDENTS WILL UNDERSTAND AND DEMONSTRATE KNOWLEDGE OF CONTROL ROOM OPERATION

Objective 1 Crew responsibilities

1. Producer
2. Director
3. Technical director



4. Audio engineer
5. Video playback
6. Graphics
7. Teleprompter

Objective 2 Production Switcher Parts

1. Preview Bus
2. Program Bus
3. Key Bus
4. Mix/Effects (M/E)
5. Fader Bar

Objective 3 Production Switcher Functions

1. Select video source
2. Transitions
3. Special Effects

STANDARD 7

STUDENTS WILL UNDERSTAND AND DEMONSTRATE KNOWLEDGE OF VISUAL EFFECTS AND GRAPHICS

Objective 1 Visual effects

1. Chroma key
2. Picture in Picture (PIP)
3. Virtual Studio
4. Transitions

Objective 2 Graphics

1. Text
2. Fonts
3. Colors (readability and contrast)
4. Title safe area
5. Computer-generated design
6. Still Images
7. Lower Third

Standard 7 Performance Evaluation included below (Optional)

STANDARD 8

STUDENTS WILL UNDERSTAND AND DEMONSTRATE KNOWLEDGE OF TELEVISION STANDARDS

Objective 1 NTSC and PAL

Objective 2 High definition vs. Standard definition

Objective 3 Aspect ratio

Objective 4 Frames per second (fps)



Objective 5 Interlaced and Progressive

STANDARD 9

STUDENTS WILL UNDERSTAND COPYRIGHT LAWS, ETHICS, AND LEGAL ISSUES AS IDENTIFIED IN UNITED STATES CODE TITLE 17 CHAPTER 1 SECTION 101

Objective 1 Define copyright.

Objective 2 Other definitions

1. Audiovisual works
2. Computer program
3. Copies
4. Copyright owner
5. Digital transmission
6. Financial gain
7. Pictorial, graphic, and sculptural works
8. Work of visual art

Objective 3 Students will practice ethics and rules governing photojournalism (e.g., editorial content must not be changed).

Objective 4 Students will practice correct usage of copyright laws (i.e. the right to reproduce, manipulate, distribute, plagiarize, or exhibit another's work outside of fair use provisions).

1. Time limitations
2. Portion limitations
3. Text material
4. Illustrations and photographs
5. Copying and distribution limitations

Objective 5 Students will demonstrate understanding of ethics related to social and legal issues in subject choice (i.e. model releases, image appropriateness, and cultural sensitivity).

STANDARD 10

STUDENTS WILL ENHANCE THEIR UNDERSTANDING OF GRAPHIC/PRINTING AS A PROFESSION AND WILL DEVELOP PROFESSIONAL SKILLS FOR THE WORKPLACE

Objective 1 As a participating member of the SkillsUSA student organization complete the SkillsUSA Level 2 Professional Development Program.

1. Measure/modify short-term goals.
2. Identify stress sources.
3. Select characteristics of a positive image.
4. Demonstrate Government awareness.
5. Demonstrate awareness of professional organizations.
6. Apply team skills to a group project.
7. Observe and critique team skills at a local professional meeting.
8. Demonstrate business meeting skills.



9. Explore the workplace ethics: codes of conduct.
10. Demonstrate social etiquette.
11. Complete survey for employment opportunities.
12. Complete a professional journal and develop a three-to five-minute speech.
13. Complete a job application.
14. Assemble an employment portfolio.
15. Explore supervisory and management roles in an organization.
16. Conduct a worker interview
17. Perform self-evaluation and proficiency in program competencies.

Objective 2

Serve in the school's SkillsUSA chapter as a committee member.

Objective 3

Display a professional attitude toward the instructor and peers.

Objective 4

As a participating member of the SkillsUSA student organization, complete the SkillsUSA Level 3 Professional Development Program.

1. Evaluate your career and training goals.
2. Market your career choice.
3. Develop personal financial skills
4. Serve as a volunteer in the community.
5. Plan and develop a business.
6. Conduct a worker interview.
7. Develop a résumé and write a cover letter.
8. Demonstrate interviewing skills.
9. Understand the cost of customer service.
10. Identify and apply conflict resolution skills.
11. Demonstrate evaluation skills.
12. Examine workplace ethics: the role of values in making decisions.
13. Perform a skill demonstration.
14. Learn what is contained in Material Safety Data Sheets (MSDS).
15. Perform a self-evaluation of proficiency in program competencies.

Objective 5

Serve as an officer in the school's chapter of SkillsUSA.

Objective 6

Participate in an authorized SkillsUSA drafting competition.

Objective 7

Display a professional attitude toward the instructor and peers.



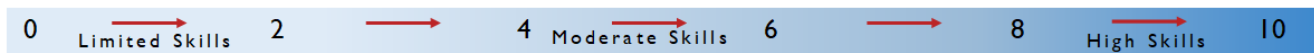
Television Broadcasting II Preparation Performance Standards (Optional)

Performance assessments may be completed and evaluated at any time during the course. The following performance skills are to be used in connection with the associated standards and exam. To pass the performance standard the student must attain a performance standard average of **8 or higher** on the rating scale. Students may be encouraged to repeat the objectives until they average **8 or higher**.

Students Name _____

Class _____

PERFORMANCE RATING SCALE



STANDARD 1 Camera Operation

Score:

- Understand and demonstrate camera operation

STANDARD 2 Audio Systems

Score:

- Understand and demonstrate audio systems and how they are used

STANDARD 3 Lighting systems

Score:

- Understand and demonstrate lighting systems and how they are used

STANDARD 4 Pre and Post Production

Score:

- Understand and demonstrate pre-production (field/studio)
- Understand and demonstrate post-production

STANDARD 7 Visual Effects and Graphics

Score:

- Understand and demonstrate visual effects and graphics

PERFORMANCE STANDARD AVERAGE SCORE: