

# STRANDS AND STANDARDS

## TELEVISION BROADCASTING 2



### Course Description

This course is designed to provide students with the advanced knowledge and skills related to the television broadcasting industry. This includes instruction and hands-on assignments in the following areas: camera operation, audio systems, lighting systems, pre-production, studio operations, control room operations, visual effects and graphics, and copyright laws.

<b>Intended Grade Level</b>	11-12
Units of Credit	0.5
Core Code	40.01.00.00.010
Concurrent Enrollment Core Code	40.01.00.13.010
Prerequisite	TV Broadcasting 1
Skill Certification Test Number	591
Test Weight	0.5
<b>License Type</b>	CTE and/or Secondary Education 6-12
<b>Required Endorsement(s)</b>	
Endorsement 1	Television Broadcasting
Endorsement 2	N/A
Endorsement 3	N/A



## STRAND 1

**Students will be able to demonstrate knowledge of the correct operation of the camera.**

### Standard 1

Identify the functions of the main parts of a camera, including:

- Image sensors
- Lens
- Body
- Viewfinder

### Standard 2

Demonstrate use of advanced camera operations, including:

- Focus
- White balance, both indoors and outdoors
- Exposure involving the iris/aperture and shutter speed
- Recording settings
  - Format
  - Current camera resolutions (720, 1080, 4K, etc.)
  - Appropriate frame rates and their uses

### Standard 3

Demonstrate proper use of camera supports, including:

- Tripod
- Monopod
- Reducing camera shake when handheld

### Standard 4

Demonstrate effective shot composition (framing), including:

- Rule of thirds
- The difference between nose room and lead room
- Head room
- Two shot

### Standard 5

Demonstrate effective use of various shot types, including:

- Wide or long (LS)
- Medium (MS)
- Close up (CU)

### Standard 6

Demonstrate effective use of various camera angles, including:

- High angle
- Eye level
- Low angle

## Standard 7

Demonstrate effective use of various camera movements, including:

- Pan
- Truck
- Tilt
- Pedestal
- Zoom
- Dolly
- Arc

## Performance Skill

Demonstrate knowledge of the correct operation of the camera.

- Identify the functions of the main parts of a camera.
- Demonstrate use of advanced camera operations.
- Demonstrate proper use of camera supports.
- Demonstrate effective shot composition (framing).
- Demonstrate effective use of various shot types.
- Demonstrate effective use of various camera angles.
- Demonstrate effective use of various camera movements.

## STRAND 2

**Students will be able to understand and demonstrate proper use of audio systems.**

### Standard 1

Identify various types of microphones and filters and demonstrate appropriate use of each.

- Microphone types
  - Lavalier
  - Handheld mic
  - Shotgun/Boom mic

### Standard 2

Demonstrate effective editing of audio recordings.

- Set appropriate audio levels for different audio types
  - Dialogue
  - Sound effects
  - Music
  - Clipping
- Demonstrate effective use of a three-point lighting system and its components
- Demonstrate effective use of ambient sound

### Performance Skill

Understand and demonstrate proper use of audio systems.

- Identify various types of microphones and filters and demonstrate appropriate use of each.
- Demonstrate effective editing of audio recordings.

## STRAND 3

**Students will demonstrate proper use of lighting systems.**

### Standard 1

Demonstrate understanding of a three-point lighting system and its components.

- Key light
- Fill light
- Back or halo light

### Standard 2

Identify and demonstrate effective use of lighting instruments and accessories.

- Direct light
- Diffused light
- Barn doors
- Reflectors
- Diffusers (softbox, umbrella, etc.)
- Gels

### Standard 3

Setup and use lighting appropriately for various situations.

- Chroma key lighting
- Background lighting

### Performance Skill

Demonstrate proper use of lighting systems.

- Demonstrate understanding of a three-point lighting system and its components.
- Identify and demonstrate effective use of lighting instruments and accessories.
- Setup and use lighting appropriately for various situations.

## STRAND 4

**Students will demonstrate the proper use of broadcast production equipment and components.**

### Standard 1

Demonstrate advanced use of a live production switcher and identify its components.

- Preview row (Bus)
- Program row (Bus)

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- Key row (Bus)
- Mix/effects (M/E)
- Fader bar

### Standard 2

Demonstrate advanced use of an audio mixer (soundboard).

- Mic/line inputs
- Mic/line faders
- Pan
- Master fader
- VU meter

### Standard 3

Demonstrate proper use of a teleprompter.

### Standard 4

Identify various connectors.

- BNC
- HDMI
- Mini (1/8") jack
  - Stereo/mono
- 1/4" Jack
  - Stereo/Mono
- RCA
- USB
- XLR

### Performance Skill

Demonstrate the proper use of broadcast production equipment and components.

- Demonstrate advanced use of a live production switcher and identify its components.
- Demonstrate advanced use of an audio mixer (soundboard).
- Demonstrate proper use of a teleprompter.
- Identify various connectors.

## STRAND 5

**Students will effectively perform the functions of the control room and studio personnel.**

### Standard 1

Perform various *control room* crew responsibilities.

- Producer
- Director
- Technical director
- Audio engineer

- Video playback
- Graphics
- Teleprompter

### Standard 2

Perform various *studio* crew responsibilities.

- Floor director
- Camera operator
- Talent

### Performance Skill

Effectively perform the functions of the control room and studio personnel.

- Perform various *control room* crew responsibilities.
- Perform various *studio* crew responsibilities.

## STRAND 6

**Students will demonstrate proper pre-production tasks.**

### Standard 1

Participate in pre-production meetings.

### Standard 2

Use effective communication skills when planning a production, including:

- Purpose
- Audience

### Standard 3

Effectively create storyboards.

### Standard 4

Effectively demonstrate proper script writing.

### Standard 5

Properly use rundown for broadcast productions.

- Blocks/timeline
- Shot list (Camera number, position, shot type)
- Bumper and Teasers

### Standard 6

Studio preparation.

### Performance Skill

Demonstrate proper pre-production tasks.

- Participate in pre-production meetings.
- Use effective communication skills when planning a production.

- Effectively create storyboards.
- Effectively demonstrate proper script writing.
- Properly use rundown for broadcast productions.
- Studio preparation.

### STRAND 7

**Students will demonstrate effective news gathering.**

#### Standard 1

Create hard and soft news stories.

#### Standard 2

Demonstrate effective interview techniques.

- Street interview
- Sit-down interview

#### Standard 3

Develop effective new stories that include:

- Interviews
- Narration
- B-roll
- Lead-in/out

#### Performance Skill

Demonstrate effective news gathering.

- Create hard and soft news stories.
- Demonstrate effective interview techniques.
- Develop effective new stories.

### STRAND 8

**Students will demonstrate proper post-production techniques.**

#### Standard 1

Demonstrate appropriate file management and archiving processes.

- Transferring
- Organizing
- Naming

#### Standard 2

Demonstrate effective editing workflows.

- Preview media
  - Trim

- Rough cut
  - Cuts
  - Transitions
- Tighten sequence
- Filters/effects
  - Graphics
  - Keyframe animation
- Export

### Standard 3

Demonstrate effective output of media.

- Use appropriate settings for desired output (i.e., web, mobile, movie screen, TV, etc.)
  - Codecs (h.264, ProRes, XAVC, etc.)
  - Containers (.MP4, .MOV, etc.)
  - Resolutions (720, 1080, 4K, etc.)
  - Frame per second

### Performance Skill

Demonstrate proper post-production techniques.

- Demonstrate appropriate file management and archiving processes.
- Demonstrate effective editing workflows.
- Demonstrate effective output of media.

## STRAND 9

**Students will demonstrate the use of visual effects and graphics.**

### Standard 1

Demonstrate effective use of various visual effects, including:

- Chroma key
- Over-the-shoulder box
- Virtual studio
- Transitions

### Standard 2

Demonstrate effective use of graphics, including:

- Lower thirds
- Text
  - Font styles
  - Colors
  - Title safe area
- Computer-generated design
- Still images



### Performance Skill

Demonstrate the use of visual effects and graphics.

- Demonstrate effective use of various visual effects.
- Demonstrate effective use of graphics.

## STRAND 10

**Students will produce multiple broadcasts.**

### Standard 1

Produce a broadcast that includes, but isn't limited to the following:

- Multiple cameras and/or switching between video content
- Segments, news packages, and/or commercials/PSAs
- Broadcast to an audience

### Performance Skill

Produce multiple broadcasts.

## STRAND 11

**Students will be able to understand and practice copyright laws, ethics and legal issues as identified in United States Code Title 17 Chapter 1 Section 101.**

### Standard 1

Define copyright, public domain, fair use, creative commons, and ethics.

### Standard 2

Practice ethics and rules governing photojournalism.

- Fair use
- Time limitations
- Copying and distribution limitations

## STRAND 12

**Students will understand the importance of career readiness skills as it relates to the workplace and outlined in the SkillsUSA Framework – Level 2.**

### Standard 1

Understand and demonstrate reliability.

- Determine individual time management skills.
- Explore what's ethical in the workplace or school.
- Demonstrate awareness of government.
- Demonstrate awareness of professional organizations and trade unions.

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### Standard 2

Understand and demonstrate responsiveness.

- Define the customer.
- Recognize benefits of doing a community service project.
- Demonstrate social etiquette.
- Identify customer expectations.

### Standard 3

Understand resiliency.

- Discover self-motivation techniques and establish short-term goals.
- Select characters of a positive image.
- Identify a mentor.

### Standard 4

Understand and demonstrate workplace habits.

- Participate in a shadowing activity.
- Explore workplace ethics: codes of conduct.
- Recognize safety issues.
- Perform a skill demonstration.
- Exercise your right to know.

### Standard 5

Understand and develop initiative.

- Develop personal financial skills.
- Develop a business plan.
- Investigate entrepreneurship opportunities.

### Standard 6

Understand and demonstrate continuous improvement.

- Conduct a worker interview.
- Demonstrate evaluation skills.
- Examine ethics and values in the workplace.
- Develop a working relationship with a mentor.
- Construct a job search network.

## Skill Certificate Test Points by Strand

Test Name	Test #	Number of Test Points by Strand									Total Points	Total Questions
		1	2	3	4	5	6	7	8	9		
Television Broadcasting 2	591	10	8	6	3	12	6	2	3	3	53	33