# Production Technology

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| Career Cluster | Arts, A/V Technology, & Communications |
| Course Code | 11160 |
| Prerequisite(s) | Recommended prerequisite courses: Intro to Arts, AV Tech & Communication |
| Credit | 0.5 to 1.0 credit |
| Program of Study and Sequence | Introduction to Arts, A/V Technology & Communications – Production Technology–pathway courses – Capstone Experience |
| Student Organization | International Thespian Association, United States Institute for Theatre Technology, Educational Theatre Association, Skills USA |
| Coordinating Work-Based Learning | School drama department; community theatre; non-profit organizations such as The Cave (Rapid City); religious organizations |
| Industry Certifications | National Career Readiness Certificate (NCRC) |
| Dual Credit or Dual Enrollment | https://sdmylife.com/images/Approved-CTE-Dual-Credit.pdf |
| Teacher Certification | Arts AV Technology Cluster Endorsement; Visual Arts Pathway Endorsement |
| Resources | Local postsecondary institutions, Standard Hyperlinks |

**Course Description**

Production Technology introduces the student to the fundamental elements and principles of technical productions through applied learning that makes use of production facilities, operations, methods, and technologies used in professional, amateur, and educational theaters and production studios. The course includes a brief history of technical theatre and broadcast media. Students will learn the functions of the creative team, production staff, technicians and stage crew. Basic elements of scenic construction, design concepts, theatrical lighting, sound technologies, and production management will be introduced and assessed through practical application.

**Program of Study Application**

Production Technology is a level II course in the Arts, A/V Technology & Communications career cluster. Production Technology pertains to all three career pathways: Journalism and Broadcasting; Telecommunications/A-V Technology; Visual/Performance Arts.

## Course Standards

**PT 1: Identify the components of the performance space and potential safety hazards.**

| Webb Level | Sub-indicator |
| --- | --- |
| One<br>Recall | PT 1.1 Explore, label, and define usage of all areas adjacent to the stage and within the performance space. |
| One<br>Recall | PT 1.2 Identify all areas and equipment in a performance area that have potential to cause harm. |

**PT 2: Examine applications of past and present forms of technology in performing arts.**

| Webb Level | Sub-indicator |
| --- | --- |
| Three<br>Strategic Thinking | PT 2.1 Compare and contrast historical and contemporary performance spaces. |
| Two<br>Skill/Concept | PT 2.2 Identify and define the properties of different performance spaces. |

**PT 3: Describe career possibilities in technical production.**

| Webb Level | Sub-indicator |
| --- | --- |
| Two<br>Skill/Concept | PT 3.1 Research job titles and duties for technical personnel. |
| Two<br>Skill/Concept | PT 3.2 Demonstrate and practice basic crew functions. |

**PT 4: Analyze scripts collaboratively with production crew for understanding of performance design and technical needs.**

| Webb Level | Sub-indicator |
| --- | --- |
| Two<br>Skill/Concept | PT 4.1 Identify specific cues for sound, lighting, and set derived from action or dialogue in the text. |
| Three<br>Strategic Thinking | PT 4.2 Determine choices of production color and style which reflect intended mood, environment, and era. |

**PT 5: Plan scenic elements and set construction.**

| Webb Level | Sub-indicator |
| --- | --- |
| One<br>Recall | PT 5.1 Identify industry terminology for scene design and construction. |
| Three<br>Strategic Thinking | PT 5.2 Design and create a floor plan for a specific production. |
| Two<br>Skill/Concept | PT 5.3 Demonstrate safety procedures for operation, maintenance, and storage of set construction items and tools. |

**PT 6: Construct various elements of sets according to industry standards.**

| Webb Level | Sub-indicator |
|---|---|
| Three Strategic Thinking | PT 6.1 Evaluate the function and application of framed scenery and build suitable set pieces. |
| Three Strategic Thinking | PT 6.2 Design and construct weight-bearing scenic units. |
| Two Skill/Concept | PT 6.3 Apply knowledge of installation and rigging techniques to securely join set pieces. |
| Two Skill/Concept | PT 6.4 Demonstrate various elements of scenic art. |

**PT 7: Design practical applications for lighting and sound.**

| Webb Level | Sub-indicator |
|---|---|
| One Recall | PT 7.1 Identify and recall names of common lighting instruments. |
| Three Strategic Thinking | PT 7.2 Design lighting plot for screenplay or script. |
| Two Skill/Concept | PT 7.3 Demonstrate proper procedure for hanging and focusing lighting instruments. |
| Three Strategic Thinking | PT 7.4 Develop sound design for production. |
| Two Skill/Concept | PT 7.5 Observe and apply knowledge of sound and light board operation. |