



9172
ADVANCED SOUND
ENGINEERING FOR LIVE
PERFORMANCES (12C)

40S/40E/40M

A Sound Engineering Course

9172: ADVANCED SOUND ENGINEERING FOR LIVE PERFORMANCES (12C) 40S/40E/40M

Course Description

This course expands on the knowledge and skills students acquired in 9169 Sound Engineering for Live Performances. Students will, with a minimum of supervision, initiate and manage a live performance, assuming the role of a technical director. Students will demonstrate the use of advanced techniques in editing the performance.

Goal 1: Describe and apply appropriate **health and safety** practices.

GLO 1.1: Describe and apply appropriate **health and safety** practices.

SLO 12C.1.1.1 Create and maintain a safe and organized working environment.

SLO 12C.1.1.2 Give examples of workplace safety and health hazards related to sound engineering.

SLO 12C.1.1.3 Discuss sound pressure levels and their relationships to hearing loss.

SLO 12C.1.1.4 Use hearing protection as required.

SLO 12C.1.1.5 Demonstrate proper selection and use of a variety of personal protective equipment.

SLO 12C.1.1.6 Outline the safety principles for working on and around electrical and sound equipment.

SLO 12C.1.1.7 Outline workplace fire safety principles.

Goal 2: Demonstrate an understanding of **audio theory** and **music theory**.

GLO 2.1: Demonstrate an understanding of **audio theory**.

No applicable SLOs.

GLO 2.2: Demonstrate an understanding of **music theory**.

No applicable SLOs.

Goal 3: Communicate by **making music**.

GLO 3.1: Communicate by **making music**.

No applicable SLOs.

GLO 3.2: Participate in a **musical performance**.

No applicable SLOs.

Goal 4: Engineer studio sessions and live performances.

GLO 4.1: Demonstrate the identification, selection, and management of **musical instruments** and **recording equipment**.

SLO 12C.4.1.1 Identify, select, and manage all of the musical instruments and recording equipment required for a live performance.

GLO 4.2: Perform **pre-production** sound engineering duties.

SLO 12C.4.2.1 Perform a sound check for a live performance.

GLO 4.3: Demonstrate **blocking** a live performance.

SLO 12C.4.3.1 Block a live performance.

GLO 4.4: Engineer studio sessions and live performances.

SLO 12C.4.4.1 Demonstrate, at an advanced level, the skills to edit, mix, and incorporate special effects (including reverb, EQ, delay, and compression) during a live performance.

GLO 4.5: Perform **post-production** sound engineering duties.

SLO 12C.4.5.1 Demonstrate, at an advanced level, the skills to edit, mix, and incorporate special effects (including reverb, EQ, delay, and compression) after a live performance.

SLO 12C.4.5.2 Demonstrate, at an advanced level, the ability to perform the mastering process for a live performance.

GLO 4.6: Demonstrate **striking** a live performance.

SLO 12C.4.6.1 Demonstrate the skills required to strike a stage used in a performance that includes several performers and instruments.

Goal 5: Describe and demonstrate the transferable **cross-curricular** knowledge and skills that are relevant to sound engineering.

GLO 5.1: Read, interpret, and communicate information that is relevant to sound engineering.

No applicable SLOs.

GLO 5.2: Apply the knowledge and skills from **mathematics** that are relevant to sound engineering.

No applicable SLOs.

GLO 5.3: Apply the knowledge and skills from **the sciences** that are relevant to sound engineering.

No applicable SLOs.

GLO 5.4: Apply the knowledge and skills from **other subject areas** (e.g., information and communication technology, electronics, the arts) that are relevant to sound engineering.

SLO 12C.5.4.1 Demonstrate proficiency in the use of music production software.

Goal 6: Demonstrate an awareness of **sustainability** as it pertains to sound engineering.

GLO 6.1: Describe the impact of **human sustainability** on the well-being of those employed in the music industry and their consumers.

No applicable SLOs.

GLO 6.2: Describe the industry's **sustainability practices** and impact on the environment.

SLO 12C.6.2.1 Discuss the impact of modern digital electronic equipment on the environment.

GLO 6.3: Describe **sustainable business practices** within the industry.

No applicable SLOs.

Goal 7: Demonstrate an awareness of the **ethical and legal standards** as they pertain to sound engineering.

GLO 7.1: Demonstrate an awareness of the **ethical and legal standards** as they pertain to sound engineering.

No applicable SLOs.

Goal 8: Demonstrate **employability** skills.

GLO 8.1: Demonstrate **fundamental employability skills**.

SLO 12C.8.1.1 Demonstrate regular and punctual attendance.

- SLO 12C.8.1.2 Demonstrate the ability to communicate respectfully and effectively with teachers, supervisors, co-workers, and students.
- SLO 12C.8.1.3 Demonstrate accountability by taking responsibility for their actions.
- SLO 12C.8.1.4 Demonstrate adaptability, initiative, and effort.
- SLO 12C.8.1.5 Demonstrate teamwork skills.
- SLO 12C.8.1.6 Demonstrate the ability to stay on task and effectively use time in class and work environments.
- SLO 12C.8.1.7 Demonstrate the responsible use of wireless communication devices.
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GLO 8.2: Demonstrate an awareness of **cultural proficiency** and its importance in the workplace.

- SLO 12C.8.2.1 Demonstrate an awareness of contemporary FNMI music.
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GLO 8.3: Demonstrate **critical thinking skills**.

No applicable SLOs.

GLO 8.4: Demonstrate an understanding of the **business operation** of a music organization.

- SLO 12C.8.4.1 Discuss the requirements for companies to generate profits in order to continue operating.
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Goal 9: Demonstrate an understanding of the **industry**.

GLO 9.1: Demonstrate an understanding of the **scope** of the music industry.

No applicable SLOs.

GLO 9.2: Demonstrate an understanding of the **educational and career opportunities**, as well as **industry associations**, in the sound engineering industry.

- SLO 12C.9.2.1 Discuss educational and career opportunities in sound engineering for live performances.
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GLO 9.3: Demonstrate an understanding of **working conditions** in sound engineering.

- SLO 12C.9.3.1 Discuss the working conditions for sound engineers working on live performances.
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Goal 10: Demonstrate an awareness of the **evolution, technological progression,** and **emerging trends** in sound engineering.

GLO 10.1: Describe the **history, technological progression,** and **emerging trends** in sound engineering.

SLO 12C.10.1.1 Describe the history, technological progression, and emerging trends in sound engineering for live performances.
