



Lesson Plan: Essentials of AV Technology **(Time Agenda: 5 Days – 20 Hours)**

Audio/Video Essentials is a 20-hour course outlining the fundamentals of AV technologies. This class starts with the basics of sound & hearing and light & vision, the building blocks of audio/video. We will then explore the math behind selecting the proper video display and calculating loudspeaker loads. The most current AV connectivity options and the protocols which transmit these signals are presented. AV controls and networking are discussed, along with the multiple phases of an audio/video project including site survey, design, installation, closeout, and system operation & training. The course will also encompass hands-on exercises allowing students to select and build components for functional signal paths. Ultimately, all participants will learn about AV industry training and certifications and are strongly encouraged to explore further professional credentials. This course will prepare our workforce to be successful at completing relevant industry exams.