

Audio Academy

AE102 LIVE SOUND REINFORCEMENT I

Unit 1 SPACE ANALYSIS

- 1.1 Acoustic Space Analysis Methods
- 1.2 Measurement
- 1.3 Impulse Response
- 1.4 RTA

Unit 2 LIVE SOUND SYSTEM COMPONENTS

- 2.1 Loudspeaker Design
- 2.2 Line Array Theory
- 2.3 System Management & Signal Processors
- 2.4 System Powering
- 2.5 Mixers
- 2.6 System Connection

Unit 3 SOUND REINFORCEMENT SYSTEM DESIGN

- 3.1 Basic System Design
- 3.2 Designing for Gain Before Feedback
- 3.3 Power Consideration
- 3.4 Using Simulation Software
- 3.5 Digital Audio In Live Sound
 - * Formats
 - * Networking

Unit 4 SYSTEM CALIBRATION & TUNING

- 4.1 Crossovers
- 4.2 Choosing Crossover Points
- 4.3 System Tuning

Unit 5 THE MIXER

- 5.1 Mixer Modules
 - * Input Modules
 - * Output Modules
 - * Master Section
- 5.2 Gain Staging
- 5.2 Basic Routing
- 5.3 Patching
- 5.4 Digital Consoles



Unit 6 MICROPHONES & TRANSDUCERS

6.1 Live Sound Microphones & Transducers

6.2 Specialized Microphones

6.3 Wireless Audio Transmission

* Modulation

* Transmission Power

* Antennas

6.3 Microphone Choice

Unit 7 ELECTRICAL POWER

7.1 Three Phase Systems

7.2 Electrical Power Distribution

7.3 Earthing

7.4 Electrical Safety & Operation

Unit 8 DOCUMENTATION

8.1 Design Paper Work

8.2 Technical Riders

8.3 Keeping Logs

8.4 Professional Correspondence

