

SOP Template: Audio-visual and Technical Setup Procedures

This SOP details the **audio-visual and technical setup procedures**, covering equipment preparation, connection and configuration of audio and video devices, system testing, troubleshooting common technical issues, and ensuring optimal sound and visual quality for presentations or events. The purpose is to provide clear guidelines for efficient and reliable setup to support seamless audio-visual experiences in various settings.

1. Purpose

To provide step-by-step procedures for setting up, testing, and troubleshooting audio-visual and technical equipment to ensure high-quality and dependable performance during presentations or events.

2. Scope

This SOP applies to all technical staff, event coordinators, and AV personnel responsible for managing audio-visual setups in conference rooms, auditoriums, classrooms, or any event venues.

3. Responsibilities

- **AV Technicians:** Execute setup, configuration, and troubleshooting as per this SOP.
- **Event Coordinators:** Communicate requirements, schedules, and special needs to AV personnel.
- **IT Support:** Assist with network and system integration as necessary.

4. Required Equipment and Materials

- Microphones (wired/wireless)
- Speakers/PA system
- Mixing console
- Projector/display screens/monitors
- Laptops/PCs with necessary adapters and cables (HDMI, VGA, USB, etc.)
- Video switcher/distribution amplifiers
- Extension cords, power strips, batteries, and chargers
- Remote controls and presentation clickers
- Network devices (routers/switches, as needed)

5. Procedures

1. **Preparation**
 - Review event requirements and technical rider.
 - Inspect and inventory all AV equipment.
 - Ensure backup equipment is available.
2. **Setup and Connection**
 - Position audio and video equipment according to the room layout and event needs.
 - Connect microphones, speakers, and mixing console as per manufacturer instructions.
 - Set up and connect display/projector to source devices (laptops/PCs).
 - Arrange cables securely to prevent tripping hazards.
3. **Configuration**
 - Power on all devices and check indicator lights.
 - Set audio levels on mixing console, test microphones and ensure no feedback or distortion.
 - Adjust projector/display settings (input source, resolution, brightness, focus).
 - Configure device settings according to event requirements (e.g., network connection, video playback).
4. **System Testing**
 - Conduct a full AV system check with all sources and outputs active.
 - Perform a test run of the presentation, including slides, video, and audio as applicable.
 - Verify sound and video quality from various audience positions.
5. **Troubleshooting**
 - If issues occur, systematically check connections, device power status, and cable integrity.
 - Swap out suspect cables or equipment if problems persist.
 - Consult equipment manuals or escalate to IT support for advanced issues.
6. **During Event Operation**

- Monitor equipment performance throughout the event.
 - Be prepared to adjust audio levels or resolve issues promptly if feedback or image loss occurs.
7. **Post-Event Procedures**
- Power off and disconnect all equipment.
 - Inspect for damage and report any issues.
 - Pack and store equipment as per guidelines.

6. Troubleshooting Guide

Issue	Possible Cause	Solution
No sound from speakers	Disconnected cables, muted mixer, faulty speaker	Check connections, unmute outputs, test with spare speaker
No image on display/projector	Loose cable, incorrect input, device powered off	Secure cables, select correct input, ensure power
Feedback/echo from microphone	Microphone too close to speakers, gain too high	Reposition microphone, lower gain, use EQ settings
Video lag/flickering	Poor cable quality, unsupported resolution	Use certified cables, set compatible resolution
Device not connecting to network	Incorrect settings, weak signal	Reconfigure settings, use wired connection if possible

7. Documentation and Reporting

- Complete an AV setup checklist for each event.
- Record any incidents, issues, or equipment failures for review.
- Submit feedback to improve future setups and SOP revision.

8. Revision History

Version	Date	Description	Author
1.0	2024-06-12	Initial SOP template release	AV Team