Appendix A

KSB AV Technician Tier 5

Knowledge Modules: AV Technician Tier 5

- Connection of audio system components, signal flow and conversion
- Methods of configuring and testing wireless microphones and what are common issues and adequate problem-solving techniques
- The impact of microphone placement and room acoustics on an audio signal
- Audio mixing desk routing and operation
- Digital Audio Workstation fundamental operations
- Unmanaged audio mixing scenarios
- Lighting design and fixtures/controller connections
- Synchronisation of video signals for multi-camera setups
- Principals of photography for moving image
- Appropriate audiovisual equipment and/or applications for a given brief
- Project management principles: planning, change, budgets, and documentation
- Integrated audiovisual solutions for specific requirements
- How to use CAD drawings when designing systems
- AV over IP concepts and operation: servers, digital signage, channel distribution, and access
- Awareness of the strengths, weaknesses, and limitations of videoconferencing systems and platforms
- Videoconferencing booking systems
- Redundancy and backup systems relevant to the project
- Hardware/software configurations for streaming online audiovisual content
- Installation/configuration of personal computers and common computer operating systems general functionality
- Project mastering
- Designation of video resolutions, frame rates, and output options
- Video compression and decompression through codec and bitrate workflows
- Required workflows for online and offline edits utilising a media server
- Designation of sampling rate, bit depth, and channel options
- Audio deliverables within the context of a specific project
- Different types of online events, their requirements and key considerations
- Interactive solutions for online events
- Audiovisual accessibility considerations and systems
- Personal data management in accordance with relevant data protection legislation
- National, employer, and context specific health and safety regulations
- Potential hazards and preventative measures

Skills Modules: AV Technician Tier 5

- Operate a video camera and vision mixer
- Integrate a projector and/or display as part of an audiovisual presentation
- Audio mixing; loudness, timbre, spatialisation, and channel management
- Apply and problem solve video signal flow for live production
- Operate and program lighting control software/hardware
- Root cause analysis & problem solving
- Collate, compare, and synthesise information from various sources
- Work collaboratively; Building and maintaining positive relationships with stakeholders (such as performers, public speakers, presenters, clients and event organisers)
- Communicate technical concepts with clarity in person and in writing to end users of all skill levels and seniority
- Install, test, and commission relevant hardware
- Configure and manage remote participation systems
- Edit audio and video content
- Prepare, maintain, and manipulate audio and video assets through post-production
- Create digital assets for video workflows
- Manual camera operating for a range of contemporary S35mm digital cameras
- Audio capture
- Deliver virtual event technical operations
- Clearly advise and guide event participants
- Devise a learning program intended to cover a particular device/system
- Identify personal training and professional development needs via research and investigation
- Organise appropriate personal professional development activities to develop and enhance own role and skills
- Use collaborative online environments to schedule and update projects and tasks
- Complete risk assessment documentation
- Accurately assesses level of risk to health and safety of themselves and others
- Test and maintain audiovisual equipment, cables, and connectors: substitute items where necessary
- Document and record maintenance activities
- Safe storage of equipment
- Create a coherent planning document

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Behaviour Modules: AV Technician Tier 5

- Think and act independently and safely whilst working within company guidelines
- Work calmly and methodically in time-sensitive situations
- Reference user manuals and manufacturer guidance
- Awareness of the importance of regular contact, when appropriate, to offer updated information and documentation
- Able to modify personal approach based on the situation
- Challenges approaches to work in a constructive manner
- Confident & effective communicator
- Online researcher of new equipment and training opportunities, communicate with professionals and organisations to prioritise personal training goals and activities
- Well prepared, anticipates issues ahead of time
- Take initiative e.g. seek the source of an issue of own accord and take necessary action

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