

**SKILLS FRAMEWORK FOR MEDIA
TECHNICAL SKILLS AND COMPETENCIES (TSC) REFERENCE DOCUMENT**

TSC Category	Production Technical Services					
TSC Title	Vision Mixing					
TSC Description	Switch shots for programmes for transmission and recording using a variety of transition methods to join together images from various visual sources and provide suggestions for alternatives to improve the creative output					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
		MED-MPN-2050-1.1	MED-MPN-3050-1.1	MED-MPN-4050-1.1		
		Prepare, operate, maintain and troubleshoot the studio vision switching equipment to support the production of content from a multi-camera set-up or multiple visual sources	Switch between various visual sources and composite multiple visual feeds, graphics and backgrounds together in a multi-camera production setup to deliver a cohesive live or recorded programme	Direct live or recorded multi-camera produced content to deliver coherent visuals to achieve the creative vision of the production		
Knowledge		<ul style="list-style-type: none"> Types and functions of multimedia equipment used for production Terminologies used for audio-visual operations Types of software applications and formats for multimedia equipment Technical parameters associated with video quality including resolution, sharpness and dynamic range Types of cables and connectors for the multimedia set-up Importance of checking the correct power rating for multimedia equipment Importance of maintaining communication with the relevant personnel regarding faulty equipment 	<ul style="list-style-type: none"> Visual sources for live and recorded footage, graphics and other visual materials Process of transmitting audio and video signal to and from multimedia equipment Features, functionality and operation of vision mixing consoles and desks Vision mixing techniques including transition methods including cuts, mixes and wipes, frame manipulation, merger of visual sources, graphics and video effects mixing Keying, filling and compositing techniques and methods Graphic layout formats and template based graphics Feed error handling techniques for live broadcasts 	<ul style="list-style-type: none"> Interpretation of scripts and storyboards Principles of storyboarding and visual continuity Creation of running orders for vision switching Transitions and effects used in vision mixing Vision mixing techniques including transition methods, frame manipulation, merger of visual sources, graphics and video effects mixing Direction of a multi-camera production setup Contingency handling for live programming 		

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		<ul style="list-style-type: none"> Types of diagnostic tests for checking the operational status of multimedia equipment Workplace safety and health regulations and rules applicable to the handling and use of multimedia equipment 	<ul style="list-style-type: none"> Media Asset Management guidelines 			
Abilities		<ul style="list-style-type: none"> Identify scope of assigned work in preparation for and during the studio production Coordinate the preparation of studio equipment for vision mixing Perform diagnostic checks on vision mixing equipment before the commencement of production Provide countdowns and shot calling for recorded programming in multi-camera set-up Assist in the execution of change in commands for vision switching or handling contingency issues related to the visual sources Perform visual and functionality checks on studio monitors for the technical and visual quality of feed on the studio monitors in the production galleries Coordinate with maintenance and engineering teams to communicate faults and troubleshoot issues with 	<ul style="list-style-type: none"> Interpret production brief to understand the flow of the visuals required in alignment with the narrative Interpret running orders for switching between visual feeds to plan the vision mixing requirements for production Ideate the transitions required for switching between visuals with the creative leadership Retrieve graphics and filler materials to be placed alongside visual feeds Operate vision mixing consoles to switch between multiple visual feeds, camera angles and graphics as per running orders or direction provided Rectify errors in visual feeds for recorded programming Liaise with creative teams to resolve issues with recorded visuals Prepare and store recorded videos as per Media Asset 	<ul style="list-style-type: none"> Analyse scripts and storyboards to visualise the shots required for production Plan the flow of visuals for live or recorded multi-camera programming Develop running orders for vision mixing of routine live programming or pre-recorded shows Develop list of shot requirements, camera mapping and other instructions for vision mixing for multi-camera recorded programming Determine the transitions and effects required between shots Communicate vision mixing instructions to the team in real-time for live programming Decide on measures for contingency situations arising out of issues in visual feeds for live programming Review vision mixing of recorded shows to suggest modifications to refine the output 		

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		studio vision mixing equipment	Management (MAM) guidelines			
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