

SKILLS MAP - CAMERA OPERATOR* (SPECIALTY CAMERA OPERATION, ELECTRONIC NEWS GATHERING AND ELECTRONIC FIELD PRODUCTION OPERATION)		
Sector	Media	
Sub-sector	Film and Video, TV and Broadcast	
Track	Production Technical Services	
Sub-track	Camera	
Occupation	Camera Professional	
Job Role	Camera Operator* (Specialty Camera Operation, Electronic News Gathering and Electronic Field Production Operation)	
Job Role Description	<p>The Camera Operator executes the development of the visual look and style of the production. He/She is responsible for marking out the positions for camera equipment and production crew who are directly involved in the shoot. During the shoot, he is responsible for testing and operating the camera equipment to achieve the required shot composition while suggesting creative improvisations.</p> <p>He may be required to operate special-purpose cameras and camera equipment such as drones, Steadicam, Russian arm to capture visuals that may not be captured by standard camera-shooting processes. He may also operate 360 Cameras and other equipment required to capture live and recorded immersive content. He may also use electronic video and audio technologies in order to gather and present news. He is required to gather materials for either live transmission or recording, providing a representative account of events. He is responsible for the set-up and installation of broadcast equipment and manages the overall maintenance of sound, video and livestream recording equipment. He is also expected to format, edit and deliver recordings to the studio for events that were not streamed live.</p> <p>The work involves long hours of physically demanding tasks especially the capture of motion sequences, amidst high pressure. He is expected to operate in an outdoors environment and may be required to travel depending on the location of the shoot.</p> <p>He should have strong knowledge of camera equipment and camera operations. He should also possess the ability to visualise scenes and has the artistic vision to suggest improvisations to advised techniques of video capture. He ought to possess technical knowledge of immersive video capture and the artistic vision to realise the same in order to contribute to the development of immersive content. He is required to exhibit effective teamwork, be diplomatic and tactful when working with cast and crew.</p>	
Critical Work Functions and Key Tasks	Critical Work Functions	Key Tasks
	Prepare for the shoot	Analyse storyboards to understand the sequencing of shots and visual style of production
		Provide guidance in the mounting of the cameras to achieve the desired range of motion and maneuverability
		Oversee the preparation, installation and testing of cameras and camera equipment prior to shooting
		Allocate specific responsibilities to camera crew who are working on the same camera to prevent any overlapping of job responsibilities
		Plan the positioning of cameras for specific shots as per guidance provided
		Decide technical parameters such as focal distances for key shots, to achieve desired visual output
		Decide the movement paths and focus length paths of the camera for motion sequences
		Plan the framing of shots for all scenes
	Perform shoot operations	Conduct functionality, camera settings and safety checks on equipment before starting the shoot
		Decide on the frame for shots based on agreed visual parameters
		Operate camera equipment during the shoot to capture required shots
		Adjust technical parameters and monitor settings of the camera to achieve desired visual output
		Execute camera choreography in coordination with the lighting crew allocated to the scene
	Review the technical quality of captured shots to check if desired output has been achieved	
	Specialisation in Specialty Camera Operation	
Manage specialty camera operations	Analyse weather conditions to determine the best way to capture outdoor shots	
	Determine positioning, lighting and technical parameters of the camera for shots	
	Operate special-purpose camera and related equipment to capture special shots	
	Review captured shots to check if desired visuals have been captured	
Specialisation in Electronic News Gathering and Electronic Field Production Operation		
Electronic News Gathering and Electronic Field Production Operation	Determine production and broadcast requirements based on sets and locations	
	Assemble equipment and test for production and broadcast	
	Operate cameras to record scenes for television broadcasts	
	Monitor audio and visual feeds to ensure quality	

		Edit raw footage on location and communicate with broadcast studio to deliver news footage			
		Compress and digitise audio and video data			
		Duplicate audio or video content and distribute as needed			
		Oversee maintenance and ensure proper storage of all audio and video equipment as well as livestreaming field kits			
Skills and Competencies	Technical Skills and Competencies		Generic Skills and Competencies (Top 5)		
	360 Degree Camera Operations	Level 3^	Creative Thinking	Intermediate	
	Aerial Camera Operations	Level 3^	Communication	Intermediate	
	Camera Operations	Level 3	Teamwork	Advanced	
	Cranes, Remote Heads and Jibs Camera Operations	Level 3^	Problem Solving	Advanced	
	Crew Selection	Level 3	Decision Making	Intermediate	
	High Speed Camera Operations	Level 3^			
	Holographic Camera Operations	Level 3^			
	Lighting Operations	Level 3^^			
	Multi-camera Operations	Level 3^			
	Procurement for Production Operations	Level 3			
	Project Management	Level 3			
	Sound Editing	Level 3^^			
	Sound Recording Operations	Level 3^^			
	Stabilised Camera Operations	Level 3^			
	Underwater Camera Operations	Level 3^			
	Vehicle Camera Operations	Level 3^			
Video Editing	Level 3^^				
Visual Style Development	Level 3				
Programme Listing	For a list of Training Programmes available for the Media sector, please visit: www.skillsfuture.sg/skills-framework/Media				

The information contained in this document serves as a guide.
 Note: *Text in brackets refer to specialisations included in the job role
 Note: ^Skills needed for production teams working with speciality cameras
 Note: ^^Skills needed for an Electronic News Gathering and Electronic Field Production Camera Operator