



LEVEL 3

UNIT 20: Stage sound design and operation

D/507/6490

Guided learning hours: 60

Essential resources required for this unit: Sound equipment

This unit is internally assessed and externally moderated by OCR.

UNIT AIM

Stage sound design and operation is an umbrella term which describes the various processes involved in the creative and practical aspects of processing sound for theatre and other performance contexts. These processes are to be found in some aspects of the music events and exhibitions industry as well as the music industry and offer a wide and stimulating range of career possibilities. The increasing importance of sound in the theatre is, in part, down to new and improved technologies, but the current trend to more immersive theatre has seen the reintroduction of low technology alongside state of the art software and equipment. There is an increasing and significant crossover into film, TV and radio.

This unit will give you an understanding of the diverse range of skills demanded by these processes. You will learn about the role of the sound designer and the role of sound operations technician and the techniques and methods that are used. You will also have an opportunity to fulfil these roles and develop your understanding of them further. You will learn how to create designs to a design brief and construct a sound plan or plot which you will use in operating a show. The skills that you will learn are transferable into a range of other professions.

TEACHING CONTENT

The teaching content in every unit states what has to be taught to ensure that learners are able to access the highest grades.

Anything which follows an i.e. details what must be taught as part of that area of content. Anything which follows an e.g. is illustrative; it should be noted that where e.g. is used, learners must know and be able to apply relevant examples in their work, although these do not need to be the same ones specified in the unit content.

For internally assessed units you need to ensure that any assignments you create, or any modifications you make to an assignment, do not expect the learner to do more than they have been taught, but must enable them to access the full range of grades as described in the grading criteria.

Learning outcomes	Teaching content	
The Learner will:	Learners must be taught:	
Understand theatre sound equipment, design methodology and their purposes	 1.1 Culture and design sound design practitioners and their methods analysing texts from the perspective of sound design sound theory key terminology and concepts properties of sound, e.g. pitch, volume, quality, direction and duration music as underscore creation of ambience and soundscape 1.2 Method film, TV and radio applications music studio recording architectural acoustics sound reinforcement 1.3 Equipment properties of microphones, amplifiers and processing equipment 	
Understand the design process of planning a sound plot to a brief	A range of methods and equipment used in sound design and operations, i.e. 2.1 Method • measuring acoustical properties, calculating, recording, sampling, synthesising, plotting, scripting, cueing, rigging, signal flow diagrams, using computer software, risk assessment, testing, live sound and effects, ambience, soundscaping, reinforcement. 2.2 Equipment • processors, microphones, amplifiers, speakers, cabling, connectors, control technology, rigs, suspensions and fixings, musical instruments and Foley equipment.	
3 Be able to facilitate sound operations in a live performance	3.1 Health and safety: • familiarity with access equipment, warning cries, personal safety equipment, safety signage, available courses, e.g. PLASMA access tower course	

Learning outcomes	Teaching content		
The Learner will:	Learners must be taught:		
	 3.2 Rigging: safe methods of hanging, cabling, connecting, trunking, attaching 3.3 Operating: operating the sound board programming and execution of control functions, e.g. Gain, Trim, EQ, aux, buses, PFLs and VU meter 3.4 Producing live sound effects use of Foley equipment 		
4 Be able to review sound design and operations in live performance	Identify and review sound design and operations outcomes, i.e.: 4.1 Identify strengths and weaknesses in: • design concept • selection of materials • application of method • technical and aesthetic production outcomes • health and safety practices		

GRADING CRITERIA

LO	Pass	Merit	Distinction
	The assessment criteria are the Pass requirements for this unit.	To achieve a Merit the evidence must show that, in addition to the Pass criteria, the candidate is able to:	To achieve a Distinction the evidence must show that, in addition to the pass and merit criteria, the candidate is able to:
Understand theatre sound equipment, design methodology and their purposes	P1: Explain theatre sound equipment, methodology and their purpose to inform the sound design process	M1: Compare design methods and, operational techniques	
Understand the design process of planning a sound plot to a brief	P2: Recommend appropriate equipment and design methods	M2: Plan the design of a sound plot to a brief	
Be able to facilitate sound operations in a live performance	P3: Demonstrate a range of operational techniques using methods and equipment	M3: Apply sound operations process for a live performance	
Be able to review sound design and operations in live performance	P4: Review sound design and operations in live performance		D1: Evaluate the design process in fulfilling the brief and suggest improvements
	P5: Identify weak points in the process		

ASSESSMENT GUIDANCE

Assessment and Grading Criteria

These criteria should give learners the opportunity to use the research for **P1** to inform the sound design planning process at **M1** and, using the hindsight of production realisation reflect on the usefulness of that research at **D1**.

To achieve **P2** and **P3**, learners should produce portfolio evidence showing their competent understanding of a range of equipment and methods used in sound design and operation.

M2 should be awarded when learners provide evidence of a realistic and workable page to stage strategy for the practical realisation of a sound design plot and **M3** for the live performance operation of a plot that is fit for purpose.

D1 requires learners to produce an evaluative response in the form of a formal report showing awareness of how research has informed both the sound design and operation processes in technical, aesthetic and functional terms as well as the overall success of the project in performance.

For **P4**, learners should demonstrate an ability to review each stage of the process from planning to realisation from within the context of live performance outcomes. **P5** requires them to have identified any weakness at each of these stages. This review process should be based on both the portfolio design record and experience gained from practical application.

MEANINGFUL EMPLOYER INVOLVEMENT - a requirement for the Foundation Diploma and Diploma (Tech Level) qualifications

The 'Diploma' qualifications have been designed to be recognised as Tech Levels in performance tables in England. It is a requirement of these qualifications for centres to secure for every learner employer involvement through delivery and/or assessment of these qualifications.

The minimum amount of employer involvement must relate to at least one of the mandatory units, although we encourage you to find ways to engage with employers for other units as well.

Eligible activities and suggestions/ideas that may help you in securing meaningful employer involvement for this unit are given in the table below.

Please refer to the Qualification Handbook for further information including a list of activities that are not considered to meet this requirement.

Meaningful employer involvement	Suggestion/ideas for centres when delivering this unit
 Learners undertake structured work experience or work placements that develop skills and knowledge relevant to the qualification. 	Relationships could be built with local theatres, venues and performing companies to shadow the stage sound design and operation teams at work.
	Backstage tours and workshops with tour companies are an option for the learner to get a practical experience and view the final product of a company.
 Learners undertake project(s), exercises(s) and/or assessments/examination(s) set with input from industry practitioner(s). 	
 Learners take one or more units delivered or co-delivered by an industry practitioner(s). This could take the form of master classes or guest lectures. 	Industry experts could be invited to deliver lectures or workshops and to provide feedback to learners at key milestones.
4. Industry practitioners operating as 'expert witnesses' that contribute to the assessment of a learner's work or practice, operating within a specified assessment framework. This may be a specific project(s), exercise(s) or examination(s), or all assessments for a qualification.	

To find out more

ocr.org.uk/performingarts

or call our Customer Contact Centre on **02476 851509**

Alternatively, you can email us on vocational.qualifications@ocr.org.uk







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