

Training Package	Entertainment (CUE03)	HSC Requirements and Advice
Title	Apply set construction techniques	
Unit code CUESET05B	Unit Descriptor This unit describes the skills and knowledge to apply basic carpentry skills to the construction of sets within any production in the cultural industries. As such it focuses on the particular materials and techniques used to create simple set elements such as flats and treads. A person working under supervision would generally undertake this role. Skills working with hand and power tools would be required to complete this unit.	HSC Indicative Hours 30

Evidence Guide			
Underpinning skills and knowledge	Linkages to other units	Resource requirements	HSC Requirements and Advice
<p>Assessment must include evidence of the following knowledge and skills:</p> <ul style="list-style-type: none"> terminology used in set construction, including types of scenery, joints and fixing systems stage geography terminology particular types of materials used for set construction, rationale for selection of these materials and their properties, applications and durability particular techniques used in set construction and rationale, including common types of joints and assembly techniques safety issues associated with the construction of sets, including various fireproofing techniques for different materials format and meaning of technical drawings used to inform set construction organisational and legislative occupational health and safety requirements, in particular with regard to safe manual handling techniques and working with hazardous substances literacy skills sufficient to interpret safety instructions numeracy skills sufficient to calculate quantities and take measurements. 	<p>This unit has linkages with a range of other general building and construction units and set construction units. It is strongly recommended that this unit be assessed with or after the following units:</p> <ul style="list-style-type: none"> BCGBM1005B Carry out measurements and calculations or equivalent unit MEM18.1AB Use hand tools. 	<p>Assessment of this unit requires access to:</p> <ul style="list-style-type: none"> materials, tools and equipment required to construct simple set elements a workspace in which construction can take place. 	<p>Key Terms and Concepts</p> <ul style="list-style-type: none"> assembly techniques communication construction techniques fireproofing hazardous materials joints material properties material selection occupational health and safety (OHS) problem-solving quantities and measurements set elements stage geography teamwork technical drawings tools and equipment waste minimisation.

Method and context of assessment	Critical aspects of evidence	HSC Requirements and Advice
<p>The assessment context must provide for:</p> <ul style="list-style-type: none"> practical demonstration of skills through construction of set elements on more than one occasion completion of set construction tasks within realistic workplace timeframes. <p>Assessment may incorporate a range of methods to assess performance and the application of essential underpinning knowledge, and might include:</p> <ul style="list-style-type: none"> direct observation of the candidate using techniques to construct set elements evaluation of items constructed by the candidate in terms of quality finishing and appropriate structural soundness oral or written questioning to assess knowledge of set construction and stage geography terminology portfolios of evidence and third party workplace reports of on-the-job performance by the candidate. <p>Assessment methods should closely reflect workplace demands and the needs of particular groups (eg people with disabilities, and people who may have literacy or numeracy difficulties such as speakers of languages other than English, remote communities and those with interrupted schooling).</p>	<p>The following evidence is critical to the judgement of competence in this unit:</p> <ul style="list-style-type: none"> understanding of the properties, applications and durability of different types of materials that can be used to make set elements correct and safe use of techniques to construct simple set elements. 	

Key competencies in this unit

Key competencies are built into all workplace competencies. The table below describes those applicable to this unit. Trainers and assessors should ensure that they are addressed in training and assessment.

Level 1 = Perform Level 2 = Administer and Manage Level 3 = Design and Evaluate

Key competencies	Level	Examples
Collecting, organising and analysing information	1	Working out quantities of materials required
Communicating ideas and information	1	Asking for directions from supervisor
Planning and organising activities	1	Organising tools and equipment for a specific job
Working with others and in teams	1	Discussing task allocation with colleagues
Using mathematical ideas and techniques	1	Taking measurements
Solving problems	1	Identifying the need for adjustments
Using technology	1	Using power tools

Element	Performance Criteria	Range Statement	HSC Requirements and Advice
1 Select equipment and materials for set construction	1.1 Liaise with supervisor to determine the nature of set construction requirements	<p>The following explanations identify how this unit may be applied in different workplaces, sectors and circumstances.</p> <p>Set construction techniques at this level would generally involve construction of the following:</p> <ul style="list-style-type: none"> • flats • treads • braces • flown pieces • doors built into a flat • windows built into a flat 	<p>Learning experiences for the HSC must address:</p> <p>General function and use of a range of set elements to be constructed including:</p> <ul style="list-style-type: none"> • flats • treads • braces • flown pieces • doors/windows built into a flat. <p>Set requirements for an entertainment event including:</p> <ul style="list-style-type: none"> • interpreting the script • communicating with the director, stage manager, production manager and performers • following a set production schedule, sets specifications and sets list • interpreting scale and technical drawings • accessing appropriate documentation <ul style="list-style-type: none"> - budgets - time schedules - set designs - running sheets - measurement charts - operational/project plan. <p>A basic understanding of stage geography.</p>
	1.2 Correctly identify and select appropriate materials for set construction in accordance with supervisor's instructions	<p>Set materials may include:</p> <ul style="list-style-type: none"> • timber • timber products • particle board • craftwood, Masonite, plywood • metal products, e.g. bars, tubes, sheets, moulded or cast metal • fibreglass, canvas and other fabrics • plastics, e.g. moulded • sheet • fabric • paper • fasteners • adhesives 	<p>Learning experiences for the HSC must address:</p> <p>General knowledge of the properties, use and visual effects of a range of materials.</p>

Element	Performance Criteria	Range Statement	HSC Requirements and Advice
	1.3 Calculate correct quantities of materials required and minimise waste where possible		<p>Learning experiences for the HSC must address:</p> <p>An understanding of the importance of accuracy in the interpretation of measurements.</p> <p>Calculation of quantities of materials for set construction including:</p> <ul style="list-style-type: none"> • a working knowledge of <ul style="list-style-type: none"> - measuring tools - scale drawings - materials lists • use of mathematical concepts <ul style="list-style-type: none"> - volume - mass - length, breadth and height • waste minimisation <ul style="list-style-type: none"> - estimation of waste calculated into overall requirements • working with geometric and irregular shapes.
	1.4 Select appropriate equipment and tools in accordance with materials being used and type of set construction required		<p>Learning experiences for the HSC must address:</p> <p>An awareness of a range of hand and power tools and equipment including:</p> <ul style="list-style-type: none"> • properties • use • potential hazards • safety precautions.
2 Use set construction techniques	2.1 Correctly use techniques to construct set elements	<p>Appropriate techniques may include:</p> <ul style="list-style-type: none"> • timber construction techniques, eg cutting • joining • fastening • gluing • metalworking, eg welding, cutting <p>Occupational and public health and safety legislative requirements may include:</p> <ul style="list-style-type: none"> • Commonwealth, State and Territory Occupational Health and Safety regulations • relevant national and international standards, guidelines and codes of practice, eg the Building Code of Australia 	<p>Learning experiences for the HSC must address:</p> <p>Knowledge of a range of methods and techniques to construct sets.</p> <p>Considerations for the selection of construction methods and techniques for sets including:</p> <ul style="list-style-type: none"> • number of times to be used • how the item will be used • proximity of audience • audience visibility <ul style="list-style-type: none"> - full view - front view only • style of rest of the set

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		<ul style="list-style-type: none"> relevant local government legislation and regulation 	<ul style="list-style-type: none"> materials used occupational health and safety (OHS) issues special requirements. <p>A basic awareness of legislative requirements for fireproofing and methods of fireproofing sets.</p>
	2.2 Complete the set construction process in a logical manner		
	2.3 Follow appropriate safety procedures throughout the set construction process in accordance with organisational and legislative requirements		<p>Learning experiences for the HSC must address:</p> <p>A basic understanding of OHS legislation.</p> <p>Awareness of OHS safety procedures involved in the construction of sets, including those related to:</p> <ul style="list-style-type: none"> risk management adequate lighting and ventilation correct manual handling use of personal protective equipment (PPE) safe handling of hazardous substances adherence to manufacturer's instructions reference to Material Safety Data Sheet (MSDS).
	2.4 Work co-operatively with other team members to ensure efficiency and quality in the set construction process		<p>Learning experiences for the HSC must address:</p> <p>An awareness of the roles and responsibilities of personnel working in the enterprise/organisation and their interrelationship including:</p> <ul style="list-style-type: none"> other set construction personnel directors producers production manager other technical staff designers. <p>Awareness of the need to work collaboratively as part of a team.</p>
	2.5 Identify any problems with the set construction process promptly and take appropriate action within the		<p>Learning experiences for the HSC must address:</p> <p>The importance of acting within level of authority in terms of:</p>

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	scope of individual responsibility		<ul style="list-style-type: none"> • taking initiative • problem-solving • decision-making. <p>Solutions to a range of potential faults:</p> <ul style="list-style-type: none"> • prior to production • during performance.