

Unit code: Y/502/5344

QCF Level 3: BTEC National

Credit value: 10

Guided learning hours: 60

# Aim and purpose

This unit aims to give opportunities for the learner to develop skills and knowledge exploring sculptural processes in depth. Working from specialist sculptural briefs learners will research and develop ideas, exploring traditional and non-traditional materials towards the production of 3D sculptural pieces.

#### Unit introduction

When meeting the requirements of commissions and briefs, sculptors need to develop and communicate ideas through a combination of 2D and 3D techniques. It is important that learners acquire skills in both these areas and develop knowledge and awareness of the work of others. Sculptors, whether working with traditional or non-traditional materials, need to gain an understanding of the materials with which they work in order to fully exploit their potential.

In this unit learners will develop an understanding of the importance of using appropriate tools and methods to achieve their creative intentions. Learners will explore sculptural approaches through experimentation with wide-ranging materials, techniques and processes. They will undertake relevant contextual research and demonstrate their understanding of the influences on their own work. Learners will recognise the importance of scale when producing drawings, models and maquettes in the processes of developing, reviewing and presenting ideas. They will develop sculptural ideas and concepts working within the constraints of realistic briefs and learn to communicate and evaluate their ideas and intentions to different audiences through appropriate presentation methods.

Briefs should be written and presented in a vocational context in order to encourage learners to work on realistic scenarios and outcomes, taking into account any relevant legal requirements such as health and safety issues and regulations in the use of sculptural media and construction techniques as appropriate.

# Learning outcomes

#### On completion of this unit a learner should:

- I Know about the physical properties and characteristics of sculptural materials
- 2 Be able to use sculptural techniques
- Be able to use sculptural processes through creating and developing own designs
- 4 Be able to present a body of work to meet the requirements of a sculpture brief.

# **Unit content**

## 1 Know about the physical properties and characteristics of sculptural materials

*Physical properties*: form; structure; qualities; aesthetic; material characteristics eg brittleness, malleability, porosity, rigidity, flexibility, weight, transparency, opacity, reflectivity, strength, texture, rigidity; surface qualities eg rough, smooth, graining, patina, translucent, opaque; tactile qualities eg rough, smooth, reflective, grained, patina; changing properties eg clay (plasticity, shrinkage, slip, plastic, leather-hard, bone dry, bisque fired), different properties (earthenware, stoneware, porcelain)

Sculptural materials: resistant eg wood, stone, plaster, wax, bronze, clay, concrete, resin, fibre glass, cement fondu; non-resistant eg clay, rubber, latex, sand, papers, tissue, newsprint, papier mache, feathers, straw, plant matter, textiles material, acrylic, acetate, viscose, PVC, cottons, wool, canvas, rope, wire, elastic, metal sheet, wire, foil, plaster;

recycled eg glass, cans, wire, stones, driftwood, acrylics, scrap metals, found objects

#### 2 Be able to use sculptural techniques

Sculptural techniques: traditional eg carving, modelling, casting, moulding; non-traditional eg installation, assemblage, construction, welding, mobiles, CAD, ephemeral, conceptual; supporting techniques eg visualisation, development, drawing, sketching, photographing, maquette making, scanning

## 3 Be able to use sculptural processes through creating and developing own designs

Sculptural processes: initial ideas; sketches; CAD: drawings eg technical, perspective, conceptual, isometric; models eg maquettes, computer-generated, scale, concept, expressive, test pieces; constructing armatures; preparing moulds

Create designs: clarifying brief eg questioning, group discussions, research information, exploration, potential, alternatives; use sources (primary, secondary); develop ideas eg speculative drawings, models, maquettes, CAD, selection; refine eg modify, adjust

Health and safety: elimination of risk to self and others; thinking and working safely within a studio environment; following the appropriate COSHH guidance on materials; understanding risk assessments

# 4 Be able to present a body of work to meet the requirements of a sculpture brief

Requirements of the brief: eg client requirement, materials, ideas, processes, contextual references; development eg potential, limitations; visual language eg proportion, balance; design modifications; finished sculpture eg technical competence, detail, finish, function, weight, fitness for purpose; aesthetic; technical

Present a body of work: finished work eg stand alone, portfolio, displayed, mounted, on-screen, installed, in situ; presentation eg discussion, forum, individual, crit, seminar; audience eg peers, clients, tutors, colleagues; supporting work eg 2D visuals, 3D models, test pieces, sketchbooks, technical information, samples, maquettes, trial samples, annotated drawings

# **Assessment and grading criteria**

In order to pass this unit, the evidence that the learner presents for assessment needs to demonstrate that they can meet all the learning outcomes for the unit. The assessment criteria for a pass grade describe the level of achievement required to pass this unit.

Assessment and grading criteria					
To achieve a pass grade the evidence must show that the learner is able to:		To achieve a merit grade the evidence must show that, in addition to the pass criteria, the learner is able to:		To achieve a distinction grade the evidence must show that, in addition to the pass and merit criteria, the learner is able to:	
P1	describe the physical properties and characteristics of different sculptural materials [IE, SM, EP]	M1	apply diverse sculptural techniques coherently, identifying characteristics of different sculptural materials	D1	produce independently and present innovative responses that creatively exploit the potential of diverse sculptural materials and techniques.
P2	use sculptural techniques [CT, SM]	M2	present a body of work which effectively interprets the brief and demonstrates consistent skills and understanding of sculptural processes.		
Р3	demonstrate sculptural processes through creating and developing own designs [CT, SM]				
P4	present a body of work to meet the requirements of a sculpture brief. [IE, RL, SM, EP]				

**PLTS**: This summary references where applicable, in the square brackets, the elements of the personal, learning and thinking skills applicable in the pass criteria. It identifies opportunities for learners to demonstrate effective application of the referenced elements of the skills.

Key	IE – independent enquirers	RL – reflective learners	SM – self-managers
	CT – creative thinkers	TW – team workers	EP – effective participators

# **Essential guidance for tutors**

## **Delivery**

This unit aims to give opportunities for the learner to explore and develop sculptural processes in depth. Working from specialist sculptural briefs learners will research and develop ideas, exploring traditional and non-traditional materials towards the production of 3D sculptural pieces.

Tasks set for this unit should introduce learners to a range of research and development techniques, to support the development of sculptural ideas. Tutors will need to plan a programme that encourages creative and experimental approaches in learners' responses to assignments set.

Introduction to learning outcomes I and 2, which are closely connected, can take the form of lectures introducing fine artists and their work. These sessions should introduce the learners to various concepts that are central to fine art practice and provide a basis for their research.

Learners will need to work from a theme as a basis for initial research and different sculptural ideas. From this, they might negotiate a personal brief on which to focus further research, and produce ideas for their own work. Research skills are a key part of this unit and learners will need to show a clear plan of how they intend to investigate their subject and theme. Learners should keep a record of all discussions with tutor/s and present a body of research in their sketchbooks or work journals. Where any changes to the plan are made, learners should provide clear evidence of how the decisions were reached and how they refined their research plan.

Tutors delivering this unit will need to provide specific practical, technical and contextual support to enable learners to originate and create sculptural work. As well as the development of practical skills through instruction and experimentation, learners should be encouraged to analyse and discuss their work in historical and theoretical contexts. Learners will need to evaluate their actions and outcomes and keep a record of their self-appraisal.

This unit will require the support of a well-equipped 3D design workshop. Learners will need access to a variety of hand-held and powered tools, modelling and moulding materials and amenities. Learners should be taught how to minimise risks, to themselves and others, through the thoughtful and safe use of tools and related equipment.

This unit has been designed to provide tutors with the opportunity to engage learners in realistic projects through the presentation of professional briefs. Projects should be set to reflect current professional practice and should be set to allow the use of a wide range of media, materials and processes. Learners should be introduced to contemporary developments in sculptural ideas and where appropriate be encouraged to experiment in similar ways. To motivate, inspire and stimulate learners, tutors should use briefs that set out realistic scenarios such as creating sculptural pieces for specific areas in the local environment.

Learning outcomes I and 2 offer the chance to learn about the fundamental elements and processes of sculpture. These two learning outcomes should be integrated with learning outcome 3 where learners research and explore sculptural materials within the context of a brief or a theme. The learners will explore the physical properties of materials and the techniques and processes involved. Learners should be encouraged to test these through a combination of instruction, demonstrations and individual exploration to create test pieces, maquettes and other pre-production models or mock-ups. Learning outcome I should be supported by theoretical study of material properties, whilst learning outcome 2 would best be supported through instruction and practical workshop experience.

Learning outcome 3 follows on from learning outcomes 1 and 2 by the practical application of materials, techniques and processes in the larger framework of developing and realising ideas. Learners should be encouraged to plan and develop ideas in 2D, through technical or scale drawings and working sketches, as well as 3D mock-ups in other materials. They should be taught to create presentation visuals and text in order to show the work in location and to promote an idea to clients.

Learning outcome 4 should draw together the learners' initial research and development, together with the final sculptural outcomes. Learners should be made aware of the commission process, the importance of working to deadlines and interpreting briefs in order to satisfy client requirements. Learners will need to be taught the necessary skills to enable them to present a professional response to clients as well as the practical skills required to produce sculpture and its supporting models and drawings.

# Outline learning plan

The outline learning plan has been included in this unit as guidance and can be used in conjunction with the programme of suggested assignments.

The outline learning plan demonstrates one way in planning the delivery and assessment of this unit.

## Topic and suggested assignments/activities and/assessment

Introduction to unit.

**Assignment 1:** A Sense of Place

Introduction to the brief/explore aims and requirements of the unit.

• Project launch and suggested breakdown of tasks; theme: a sculpture evoking a sense of place.

Selecting potential media:

- identify and review the properties/qualities of a range of appropriate sculptural materials
- evaluate potential use and suitability of selected sculptural materials for the project.

Exploration and experimentation:

- explore a range of appropriate traditional sculptural techniques
- experiment with a range of appropriate non-traditional sculptural techniques.

#### Learner initiated study.

Designing and maquette creation:

- generate and develop ideas using a range of appropriate sculptural methods
- produce a range of sculptural studies, models/maquettes.

#### Learner initiated study.

Presentation of design ideas and sample models:

- review and evaluate developmental studies
- present to peers and tutor and respond appropriately to feedback.

Refining and completing final sculptural piece:

- select and develop final idea using appropriate sculptural methods and techniques
- produce final sculptural work.

Learner initiated study.

Final presentation of completed brief:

- plan, and create a presentation of the work as a whole
- present appropriately to different audiences.

Review of unit and assessment.

#### **Assessment**

For PI, learners need to demonstrate their awareness of the properties and applications of sculptural materials. They will need to show they are can list these properties and know about their influence on form and structure as well as their suitability with regard to final outcomes. Learners should demonstrate their knowledge of the physical and aesthetic qualities of individual materials.

For P2, learners need to demonstrate working with both traditional and non-traditional sculptural materials, utilising appropriate tools as necessary, together with any supporting processes. Assessment evidence for P1 and P2 will primarily be generated through a combination of practical work supported by written research and annotated worksheets. Some evidence for P2 may come from witness statements regarding workshop activities.

For P3, learners need to demonstrate skills associated with the initiation, development and realisation of sculptural work. Assessment evidence for this criteria will be predominantly practical, consisting of initial ideas, worksheets and supporting models and test pieces but should again be supported by written work to indicate which alterations were made, and why, during the sculptural process. There will be little or no evidence of self-determination in selecting materials and processes to be explored.

For P4, learners need to demonstrate their ability to visualise all aspects of a proposed solution in order to promote their idea to a client. Assessment evidence should be gathered from a distinct body of work produced specifically for the purpose of presenting sculpture. Evidence will be primarily practical, with verbal presentations being supported by the practical work. Witness statements or video recordings may also supplement the presented work or presentations.

For MI, learners should be able apply diverse techniques and work with a variety of tools skilfully demonstrating a clear understanding of the qualities of specific materials in the creation of creative, sculptural work.

For M2, learners need to present a body of work that shows effective interpretation of the given brief. Application of consistent skills throughout should be evident, creating a cohesive body of work. Assessment evidence for M1 and M2 should consist of practical and written work as well as the potential for witness statements and video recordings.

For DI, learners need to demonstrate independence and professionalism in all areas and produce work with a high level of sophistication and creativity in response to given brief(s). They will be able to exploit material qualities and techniques through independent work.

# Programme of suggested assignments

The table below shows a programme of suggested assignments that cover the pass, merit and distinction criteria in the assessment and grading grid. This is for guidance and it is recommended that centres either write their own assignments or adapt any Edexcel assignments to meet local needs and resources.

MI, M2 DI  A Sense of Place produce commemorative monument for specific place.  ore  design mr eve design produce commemorative monument for specific place.	ssment method
Assess includ  I to the second	polio of evidence sting of: esearch evelopment of ideas such as, experiments with naterials, techniques elevant to proposal hal piece including resentation sheets evaluation such as evelopment and analysis of design ideas and final fiece; strengths and evaknesses of design leas and final piece.

# Links to National Occupational Standards, other BTEC units, other BTEC qualifications and other relevant units and qualifications

This unit forms part of the BTEC Art and Design sector suite. This unit has particular links with the following unit titles in the BTEC Art and Design suite:

Level 1	Level 2	Level 3
Creative Use of Materials, Techniques and Processes	3D Visual Communication	Visual Recording in Art and Design
Introduction to 3D Design Crafts	Working with 3D Design Crafts Briefs	Materials, Techniques and Processes in Art and Design
Introduction to Ceramics	Working with 3D Design Briefs	Exploring Specialist Ceramic Techniques
Working to a 3D Brief		Public Art

# **National Occupational Standards**

This unit also provides development opportunities for some of the underpinning skills, knowledge and understanding of the following National Occupational Standards:

#### **CCSkills Sector Skills Council**

Design (revisions in draft form June 2009)

- DEST Apply research on the history and theory of design to your own design activities
- DES2 Apply design industry knowledge to inform your own design work practice and work
- DES5 Follow a design process
- DES6 Work effectively with others in a creative environment
- DES7 Contribute to the production of prototypes, models, mock-ups, samples or test pieces
- DES24 Create 3D Models using a Computer Aided Design System
- DES36 Develop and extend your design skills and practices
- DES38 Manage design realisation
- DES39 Manage a design project.

#### **Essential resources**

This unit requires the support of a well-equipped 3D workshop facility. Learners will need access to a variety of hand-held and power tools as well as a variety of sculptural materials, malleable and non-malleable. Access to design areas and drawing studios for recording from primary sources, ideas origination and development will be essential. Both specialist and general learning support materials including books, journals, periodicals, computer access to the internet together with a range of design software are necessary to support learners in their historical, cultural and contemporary contextual research.

## **Employer engagement and vocational contexts**

Centres should develop links with practising artists, craftspeople and designers, to deliver assignments to learners or to provide work experience.

Links with employers are essential to the delivery of the programme for work experience and future employment.

Vocational learning support resources:

Learning and Skills Network – www.vocationallearning.org.uk

Business and finance advice:

• local and regional Business Link – www.businesslink.gov.uk

Assignments should be vocationally relevant; centres should consider the delivery of 'live projects' for example to support the vocational content of the unit and programme.

Creative and cultural skills (www.ccskills.org.uk), the sector skills council for arts, crafts and design have launched the web portal Creative Choices (www.creative-choices.co.uk). This portal has a range of information about careers in the arts, crafts and design sector, including job descriptions.

# Indicative reading for learners

#### **Textbooks**

Andrews O – Living Materials: A Sculptor's Handbook (University of California Press, 1988) ISBN 978-0520064522

Bade P – Sculptures of Genius (Sirrocco-Parkstone International, 2008) ISBN 978-1844842155

Bourgeois L – Louise Bourgeois (Rizzoli, 2008) ISBN 9780847831319

Chipp H B – Theories of Modern Art (University of California Press, 1984) ISBN 978-0520052567

Cross T — The Shining Sands, Artists in Newlyn and St Ives 1880-1930 (Halsgrove, 2008) ISBN 978-1841145631

Duby G and Duval J L – Sculpture, From Antiquity to the Present Day (Taschen, 2006) ISBN 978-3822850800

Feeke S – Against Nature (Henry Moore Institute, 2008) ISBN 978-1905462186

Hicks N – Sculpture and Drawings (Flowers East 2004) ISBN 9781873362327

Kallenberg L – Modelling in Wax for Jewellery and Sculpture (Krause Publications, 2000) ISBN 978-0873418515

Lanteri E – Modelling and Sculpting the Human Figure (Dover, 1986) ISBN 978-0486250069

Malpas W – Land Art and Land artists (Crescent Moon Publishing, 2008) ISBN 978-1861712530

Ortega D – Survival of the idea, failure of the object (Hatje Cantz, 2007) ISBN 978-3775720755

Plowman | – Manual of Sculpting Techniques (A & C Black, 2003) ISBN 9780713665802

Self W – Nicola Hicks 1998, The Camel That Broke the Straw's Back (Momentum, 1998) ISBN 978-1873362943

Smith C N – The fields of David Smith (Storm King Arts Centre, 2008) ISBN 978-0960627059

Stern H P – Earth, Sky and Sculpture (Storm King Art Center, 2009) ISBN 978-0960627011

Zikos D – Marks of Identity (Periscope Publishing, 2008) ISBN 978-1934772874

#### **Journals**

Art Monthly

Art Review

Ceramic Review

Contemporary

Crafts Magazine

Creative Review

Design Magazine

Henry Moore Institute Newsletter

**New Ceramics** 

Sculpture

#### Websites

www.acj.org.uk

www.antonygormley.com

www.art-design.umich.edu/mother

www.artandarchitecture.org.uk

www.arthistory.net

www.ilpi.com/artsource/welcome.html

www.jca-online.com

www.saatchigallery.com/yourgallery

www.sheffcol.ac.uk/links/Art and Design

www.tate.org.uk/modern/default.htm

the Association for Contemporary Jewellery

the sculptor's website

links from the School of Art at the University

of Michigan

the Courtauld Institute

information on some artists and art

movements

resources on art and architecture

Journal of Contemporary Art – texts of

interviews with artists

Saatchi Gallery online

Sheffield College art and design links

Tate Modern

# Delivery of personal, learning and thinking skills

The table below identifies the opportunities for personal, learning and thinking skills (PLTS) that have been included within the pass assessment criteria of this unit.

Skill	When learners are
Independent enquirers	describing the physical properties and characteristics of different sculptural materials
	evaluating and presenting a body of work to meet the requirements of a sculpture brief
Creative thinkers	using traditional and non-traditional sculptural techniques appropriately
	demonstrating sculptural processes through creating and developing own designs
	evaluating and presenting a body of work to meet the requirements of a sculpture brief
Reflective learners	evaluating and presenting a body of work to meet the requirements of a sculpture brief
Team workers	describing the physical properties and characteristics of different sculptural materials
	evaluating and presenting a body of work to meet the requirements of a sculpture brief
Self-managers	describing the physical properties and characteristics of different sculptural materials
	using traditional and non-traditional sculptural techniques appropriately
	demonstrating sculptural processes through creating and developing own designs
	evaluating and presenting a body of work to meet the requirements of a sculpture brief
Effective participators	describing the physical properties and characteristics of different sculptural materials
	evaluating and presenting a body of work to meet the requirements of a sculpture brief.

Although PLTS are identified within this unit as an inherent part of the assessment criteria, there are further opportunities to develop a range of PLTS through various approaches to teaching and learning.

Skill	When learners are	
Independent enquirers	researching the brief; selecting contexts and sources for recording	
	originating and developing sculptural design ideas	
	reviewing and refining ideas towards completed work	
	planning and preparing presentations of final sculptural designs	
Creative thinkers	recording from sources and contexts in different creative ways	
	using media, materials and processes imaginatively	
	originating and developing creative sculptural design ideas	
	working on final designs	
	presenting work to different audiences creatively and imaginatively	
Reflective learners	evaluating the different stages of project development	
	reviewing ideas and listening to feedback at tutorials and crit sessions	
	final evaluation when presenting sculptural design to different audiences	
Team workers	working with the group to analyse the brief and develop plans for research and ideas for development	
	group evaluations and feedback sessions	
	working on final displays or exhibitions and presentations	
Self-managers	working independently to further their research studies	
	planning the development of their work to meet the project brief	
	developing ideas and regularly reviewing their progress	
	selecting best ideas and deciding on ways forward	
	planning and preparing presentations	
Effective participators	participating in group discussions and evaluations	
	working on group projects	
	taking part in presentations.	

# Functional Skills – Level 2

Skill	When learners are			
ICT – Use ICT systems				
Select, interact with and use ICT systems	scanning and developing sculpture ideas digitally			
independently for a complex task to meet a variety of needs	using software programmes to develop sculptural image creation			
	researching contextual and other information for the development of ideas for sculpture brief			
Use ICT to effectively plan work and evaluate the effectiveness of the ICT system	planning project briefs and where and how ICT might be used when appropriate			
they have used	evaluating outcomes and the appropriateness of medium			
Manage information storage to enable efficient retrieval	researching from internet sources; downloading information; creating folders for storage and retrieval			
Follow and understand the need for safety and security practices	undergoing induction period – introduction to the ICT centre and systems and working practices			
ICT – Find and select information				
Select and use a variety of sources of information independently for a complex task	researching internet sources, selecting from their research, developing own response informed by research			
Access, search for, select and use ICT- based information and evaluate its fitness for purpose	researching information for different briefs and activities; evaluating results of using digital research methods			
ICT – Develop, present and communicate information				
Enter, develop and format information independently to suit its meaning and purpose including:	designing digitally; using scanners; inputting and formatting information from sources			
text and tables				
• images				
• numbers				
• records				
Bring together information to suit content and purpose	developing design ideas digitally; importing visual and textual information relevant to brief/activity			
Present information in ways that are fit for purpose and audience	using digital means to plan, create and give presentations to different audiences			
Evaluate the selection and use of ICT tools and facilities used to present information	assessing their progress and commenting on the appropriateness of their selection of ICT tools and facilities – eg use of software programmes			
Select and use ICT to communicate and exchange information safely, responsibly and effectively including storage of messages and contact lists	using email to submit written work; downloading information from internet sources; storage of information – creating folders for access			

Skill	When learners are		
Mathematics			
Understand routine and non-routine	recording visually: scaling, timing, measuring		
problems in a wide range of familiar and unfamiliar contexts and situations	using perspective and other methods of projection		
Identify the situation or problem and the mathematical methods needed to tackle it	using measuring and orthographic projection for accuracy, and scaling		
	using software to observe and modify sculptural designs from different viewpoints		
English			
Speaking and listening – make a range of	discussing the project brief		
contributions to discussions and make effective presentations in a wide range of contexts	describing the physical properties and characteristics of different sculptural materials		
Contoxico	contributing to group discussions and the sharing of ideas		
	evaluating own and others sculptural designs and finished work		
	presenting to target audiences		
Reading – compare, select, read and understand texts and use them to gather	researching, reading, selecting text and images annotating, commenting and comparing		
information, ideas, arguments and opinions	using contextual texts and images to relate to own sculptural ideas		
	evidencing understanding through discussion, crit sessions, evaluations and presentations		
Writing – write documents, including	evaluating results of sculptural designs to meet the brief		
extended writing pieces, communicating information, ideas and opinions, effectively and persuasively	annotating recordings and ideas for judgement of qualities and appropriateness in the use of selected 3D media, materials and techniques		
	analysing and evaluating selected artists' images for the purpose of developing own work, using personal judgements and relating research to own ideas		
	preparing presentations of final work.		