Qualification summary and key information **DT CURRICULUM PLAN**

**KEY STAGE 4**

Qualification title Pearson BTEC Entry Level Award in Construction (Entry 3)

Qualification Number (QN) 500/6054/5 Date registrations can be made 1 September 2009 Age range that the qualification is approved for 14-16 16-18 19+ Credit value 6 credits Assessment Centre-devised assessment (internal assessment) Total Qualification Time (TQT) 60 Guided learning hours 60 Grading information The qualification and units are at pass grade. Entry requirements No prior knowledge, understanding, skills or qualifications are required before learners can register for this qualification. However, centres must follow the Edexcel Access and Recruitment Policy (see Section 10, Access and recruitment).

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|  | **AUTUMN 1** | **AUTUMN 2** | **SPRING 1 & 2** | **SUMMER 1** | **SUMMER 2** |
| **GROUP 5****Scheme of Work** | BTEC ConstructionUnit 10: Health, Safety and Welfare in Construction | BTEC ConstructionUnit 10: Health, Safety and Welfare in Construction | BTEC ConstructionUnit 14: Developing Carpentry Skills | BTEC ConstructionUnit 14: Developing Carpentry Skills | BTEC ConstructionUnit 15: Developing Joinery Skills |
| **Example of Tasks** | *1 Know the causes of accidents in construction**1.1 Describe the causes of accidents in construction* *2 Know about the hazards and safety signs in a construction environment* *2.1 Identify potential hazards in a construction environment 2.2 Identify the safety signs used in a construction environment 3 Know how to minimise the risk of hazards 3.1 Identify and select methods used to minimise the risks of hazards 3.2 Describe ways to reduce risks 4 Know about the different types of fire extinguishers and when to use them 4.1 List different types of fire extinguishers 4.2 Describe when different types of fire extinguishers should be used 5 Know about the legislation HASAWA and COSHH* | *1 Know the causes of accidents in construction**1.1 Describe the causes of accidents in construction* *2 Know about the hazards and safety signs in a construction environment* *2.1 Identify potential hazards in a construction environment 2.2 Identify the safety signs used in a construction environment 3 Know how to minimise the risk of hazards 3.1 Identify and select methods used to minimise the risks of hazards 3.2 Describe ways to reduce risks 4 Know about the different types of fire extinguishers and when to use them 4.1 List different types of fire extinguishers 4.2 Describe when different types of fire extinguishers should be used 5 Know about the legislation HASAWA and COSHH* | *1 Know the hand tools used in basic carpentry processes* *1.1 List and describe appropriate hand tools to be used in basic carpentry processes* *2 Know the materials used in basic carpentry processes* *2.1 List and describe appropriate materials to be used in basic carpentry processes* *3 Know the personal protective equipment (PPE) used in basic carpentry processes* *3.1 List and describe appropriate PPE to be used in basic carpentry processes* *4 Be able to apply safe working practices to produce a carpentry item* *4.1 Select and use hand tools safely to make a carpentry item (photograph display item with hinge(s)) in an acceptable time 5 Be able to work responsibly with others 5.1 Maintain a clean and tidy work environment 5.2 Work responsibly in the workshop 6 Be able to seek and respond to guidance when working as part of a team 6.1 Follow instructions when working with others 6.2 Communicate appropriately with others* | *1 Know the hand tools used in basic carpentry processes* *1.1 List and describe appropriate hand tools to be used in basic carpentry processes* *2 Know the materials used in basic carpentry processes* *2.1 List and describe appropriate materials to be used in basic carpentry processes* *3 Know the personal protective equipment (PPE) used in basic carpentry processes* *3.1 List and describe appropriate PPE to be used in basic carpentry processes* *4 Be able to apply safe working practices to produce a carpentry item* * *4.1 Select and use hand tools safely to make a carpentry item (photograph display item with hinge(s)) in an acceptable time 5 Be able to work responsibly with others 5.1 Maintain a clean and tidy work environment 5.2 Work responsibly in the workshop 6 Be able to seek and respond to guidance when working as part of a team 6.1 Follow instructions when working with others 6.2 Communicate appropriately with others*
 | * *1 Know the hand tools used in basic joinery processes*
* *1.1 List and describe appropriate hand tools to be used in basic joinery processes*
* *2 Know the materials and fixings used in basic joinery processes*
* *2.1 List and describe appropriate materials and fixings to be used in basic joinery processes*
* *3 Know the personal protective equipment (PPE) used in basic joinery processes*
* *3.1 List and describe appropriate PPE to be used in basic joinery processes*
* *4 Be able to apply safe working practices to produce a joinery product*
* *4.1 Select and use hand tools safely to produce a stool in an acceptable time 5 Be able to work responsibly with others 5.1 Maintain a clean and tidy work environment 5.2 Work responsibly in the workshop 6 Be able to seek and respond to guidance when working as part of a team 6.1 Follow instructions when working with others 6.2 Communicate appropriately with others*
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|  | **AUTUMN 1** | **AUTUMN 2** | **SPRING 1 & 2** | **SUMMER 1** | **SUMMER 2** |
| **GROUP 6 / 7****Scheme of Work** | BTEC ConstructionUnit 15: Developing Joinery Skills | BTEC ConstructionUnit 15: Developing Joinery Skills | BTEC ConstructionUnit 18: Developing Plumbing Skills | BTEC ConstructionUnit 18: Developing Plumbing Skills | Review BTEC outstanding work |
| **Example of Tasks** | * *1 Know the hand tools used in basic joinery processes*
* *1.1 List and describe appropriate hand tools to be used in basic joinery processes*
* *2 Know the materials and fixings used in basic joinery processes*
* *2.1 List and describe appropriate materials and fixings to be used in basic joinery processes*
* *3 Know the personal protective equipment (PPE) used in basic joinery processes*
* *3.1 List and describe appropriate PPE to be used in basic joinery processes*
* *4 Be able to apply safe working practices to produce a joinery product*
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 | * *1 Know the hand tools used in basic joinery processes*
* *1.1 List and describe appropriate hand tools to be used in basic joinery processes*
* *2 Know the materials and fixings used in basic joinery processes*
* *2.1 List and describe appropriate materials and fixings to be used in basic joinery processes*
* *3 Know the personal protective equipment (PPE) used in basic joinery processes*
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* *4 Be able to apply safe working practices to produce a joinery product*
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 | * *1 Know the hand tools used in basic plumbing processes*
* *1.1 List and describe appropriate hand tools to be used in basic plumbing processes*
* *2 Know the materials and components used in basic plumbing processes*
* *2.1 List and describe appropriate materials to be used in basic plumbing processes 2.2 List and describe appropriate components to be used in basic plumbing processes*
* *3 Know the personal protective equipment (PPE) used in basic plumbing processes*
* *3.1 List and describe appropriate PPE to be used in basic plumbing processes*
* *4 Be able to apply safe working practices to perform plumbing operations*
* *4.1 Select and use hand tools safely to connect copper tubes 4.2 Select and use hand tools safely to install a functioning sink 5 Be able to work responsibly with others 5.1 Maintain a clean and tidy work environment 5.2 Work responsibly in the workshop 6 Be able to seek and respond to guidance when working as part of a team 6.1 Follow instructions when working with others 6.2 Communicate appropriately with other*
 | * *1 Know the hand tools used in basic plumbing processes*
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* *2.1 List and describe appropriate materials to be used in basic plumbing processes 2.2 List and describe appropriate components to be used in basic plumbing processes*
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* *3.1 List and describe appropriate PPE to be used in basic plumbing processes*
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* *2.1 List and describe appropriate materials and fixings to be used in basic joinery processes*
* *3 Know the personal protective equipment (PPE) used in basic joinery processes*
* *3.1 List and describe appropriate PPE to be used in basic joinery processes*
* *4 Be able to apply safe working practices to produce a joinery product*

*4.1 Select and use hand tools safely to produce a stool in an acceptable time 5 Be able to work responsibly with others 5.1 Maintain a clean and tidy work environment 5.2 Work responsibly in the workshop 6 Be able to seek and respond to guidance when working as part of a team 6.1 Follow instructions when working with others 6.2 Communicate appropriately with others* |

**Group 6 & 7 Design & Technology at Key Stage 4**

WJEC PATHWAYS - ENTRY QUALIFICATIONS

Title:

Design and Technology – Designing and Modelling (Working within one of the following focus areas: Resistant Materials, Textiles, Systems and Control or Graphic Products) Unit Ref. Nos. Entry 2: K/601/3676 Entry 3: J/601/5306 Entry Codes Entry 2: 6220/E2 Entry 3: 6220/E3 Level: 2/3 Credit value: 4

Unit aim:

This unit aims to help learners to acquire the knowledge and skills to design and model a product of their own choosing.

Amplification of Content

LO1 – Know how to research features of a product suitable for design work.

Amplification; this could be done by group work, question and answer, practical illustrations, exemplar material.

• Discuss the types and forms of research.

• How to present research.

• How to identify key features: weight, shape, colour, material, texture size etc.

• Personal likes and dislikes.

LO2 – Be able to create a design brief and specification.

• Review given briefs. (To allow candidates to understand the purpose of a brief. i.e. To design a …………etc.) • How to write and present a design brief for their own product.

• Review and analyse various design specifications from various products.

• Look at simple presentation techniques.

• How to present the key features of a product.

LO3 – Be able to present design ideas.

Amplification; this could be done by group work, question and answer, practical demonstrations, the use of colour to enhance an idea, exemplar material/illustrations.

• Students will need to be taught the drawing skills to be able to draw in 2D/3D form. Use of grids and computer graphics is to be encouraged.

• Colour enhancement to improve the quality of their developing design ideas.

• Annotation- the use of supporting analytical comments.

• Develop designs which are realistic within their time scale and ability.

• Be encouraged to develop a range of ideas using their own creative thought and from their initial research/specifications.

• Size and scale – An awareness of their importance before designing. Use of exemplar projects. How to dimension an idea for manufacture.