



# DIPLOMA (720GLH) IN ENGINEERING SAMPLE TWO YEAR DELIVERY PLAN

Clear unit planning and understanding of key deadlines are essential for a successful delivery programme. We have produced a sample delivery plan showing how the BTEC National **Diploma in Engineering** could be delivered over **two** years, highlighting assessment milestones.

**This plan is intended to be used as guidance as to how to approach structuring a course.**

#### Key

R = Revision for external assessment

EXT = External assessment

SA = Summative assessment

WEP = Work Experience placement

## YEAR 1

**Unit 1** can be delivered across Year 1 linking with the other units in that year. This enable collaboration between staff delivering the other three units in Year 1. There are several revision weeks throughout both semesters allowing revision at the end of each assessment objective.

**Unit 2** can be taught in the 2<sup>nd</sup> semester (Feb – June) in conjunction with remaining aspects of **Units 1** and **3**, enabling staff to draw direct links with **Unit 2**.

Completion of the first year in this manner guarantees the achievement of a BTEC External Certificate in Engineering

**Unit 3** is also delivered across Year 1 with revision weeks included throughout the year to reaffirm learning of the five learning outcomes. There are three weeks allocated for the external assessment that includes a research aspect.

**Unit 14** is taught across the 1<sup>st</sup> semester (Sept – Jan).

## YEAR 2

The first semester of Year two enables learners to learn practical skills that they can incorporate into a relevant, practical project for assessment of the specialist engineering project (**Unit 5**) delivered in semester 2.

**Unit 7** is taught over both semesters to allow learners to fully understand each learning aim before undertaking assessment.

**Unit 41** is delivered over both semesters allow students to use the skills developed and to incorporate within **Unit 5**.

**Unit 43** is delivered over the 1<sup>st</sup> semester and allows learners to develop an understanding of larger-scale engineering and to develop skills and a working knowledge of the machinery used in a typical engineering workshop and to programme in another language used within engineering.

**Unit 24** is delivered over the 2<sup>nd</sup> semester and allows learners to develop practical expertise in routine maintenance.

Learners **must** complete and achieve a minimum of a **PASS** in **Units 1, 2, 3** and **4** and complete **Unit 5**.

As a Tech Level qualification you must ensure that employer involvement is covered within the units – this must be meaningful and relevant. For details regarding this always refer to the relevant qualification specification.



**YEAR 1**

				<b>Semester 1</b>																					
Unit	Unit title	Guided learning hours	Ass'ment method	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
1	Engineering Principles	120	External								R		R								R				
3	Engineering Product Design and Manufacture	120	External								R		R								R				R
14	Electrical Installation of Hardware and Cables	60	Internal					SA						SA										SA	

**Semester 2**

Unit	Unit title	Guided learning hours	Ass'ment method	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43
1	Engineering Principles	120	External				R								R				R	R	EXT			
2	Delivery of Engineering Processes Safely as a Team	60	Internal					SA								SA							SA	
3	Engineering Product Design and Manufacture	120	External				R					R			R	EXT	EXT	EXT	Submit EXT					
<b>Hours</b>		<b>360</b>																						



**YEAR 2**

**Semester 1**

Unit	Unit title	Guided learning hours	Ass'ment method	04/09/17	11/09/17	18/09/17	25/09/17	02/10/17	09/10/17	16/10/17	23/10/17	30/10/17	06/11/17	13/11/17	20/11/17	27/11/17	04/12/17	11/12/17	18/12/17	25/12/17	01/01/18	08/01/18	15/01/18	22/01/18	29/01/18	
4	Applied Commercial and Quality Principles in Engineering	60	Internal								SA						SA								SA	
7	Calculus to Solve Engineering Problems	60	Internal												SA											SA
41	Manufacturing Secondary Machining Processes	60	Internal							SA								SA								
43	Manufacturing Computer Numerical Control Machining Processes	60	Internal				SA							SA				SA							SA	

**Semester 2**

Unit	Unit title	Guided learning hours	Ass'ment method	05/02/18	12/02/18	19/02/18	26/02/18	05/03/18	12/03/18	19/03/18	26/03/18	02/04/18	09/04/18	16/04/18	23/04/18	30/04/18	07/05/18	14/05/18	21/05/18	28/05/18	04/06/18	11/06/18	18/06/18	25/06/18		
5	A Specialist Engineering Project	60	Internal				SA					SA													SA	
7	Calculus to Solve Engineering Problems	60	Internal																			SA				
41	Manufacturing Secondary Machining Processes	60	Internal											SA										SA		
24	Maintenance of Mechanical Systems	60	Internal					SA			SA										SA				SA	

**Hours** **360**