

## Manufacturing and Product Design Principal Learning Structure

Level 1			
All units are compulsory.			
		GLH	Assessment
Unit 1	Introduction to manufacturing	30	External
Unit 2	Dealing with Customers and suppliers in manufacturing	30	Internal
Unit 3	Introduction to working practices in manufacturing	30	Internal
Unit 4	Introduction to product design and development	60	Internal
Unit 5	Introduction to materials science in manufacturing	30	Internal
Unit 6	Making a product	60	Internal

Level 2			
All units are compulsory.			
		GLH	Assessment
Unit 1	Running a manufacturing business	60	External
Unit 2	The impact of the global business world on manufacturing	60	Internal
Unit 3	Working in manufacturing	60	Internal
Unit 4	Designing and developing products for manufacture	60	Internal
Unit 5	Applications of materials science in manufacturing	60	Internal
Unit 6	Applications of processing systems in manufacturing	60	Internal
Unit 7	Product manufacture	60	Internal

### Level 3

All units are compulsory.

		<b>GLH</b>	<b>Assessment</b>
Unit 1	Business Principles in manufacturing	60	External
Unit 2	Customer needs and market requirements in manufacturing	60	External
Unit 3	Supply chain management in manufacturing	30	Internal
Unit 4	Management of resources and working practices in manufacturing	30	Internal
Unit 5	Research, development and the introduction of new products in manufacturing	90	Internal
Unit 6	Principles and applications of materials science in manufacturing	90	Internal
Unit 7	Production and processing systems in manufacturing	90	Internal
Unit 8	Management of production and processing operations	60	Internal
Unit 9	Quality in manufacturing	30	Internal