

The Edexcel Manufacturing and Product Design Diploma

I could be a...

Industrial Designer
Logistics and Operations Manager
Maintenance Manager
Manufacturing Engineer
Manufacturing Planner
Manufacturing Test Developer
Process Manager
Product Designer
Production Coordinator
Robotist

This qualification gives you a motivating and broad-based insight into the manufacturing environment in the UK and worldwide.

The Diploma introduces you to the huge variety of manufacturing career opportunities available to young people and gives you direct experience of product design and manufacture.

- Learn what it's like to work in different manufacturing sectors
- Understand the economic and cultural value of manufacturing
- Appreciate the opportunities and challenges facing manufacturing in the future, looking in depth at sustainable production
- Understand the driving forces influencing today's manufacturing industries.

Random week at a glance...

- Mon: Started design for a cycling helmet that teenagers would actually wear.
- Tues: Career planning.
- Wed: Background on manufacturing sub-sectors - foodstuffs, textiles, packaging, print, building, furniture, engineering, chemical, polymer & pharmaceutical.
- Thurs: Investigated iPhone sales.
- Fri: Conor Electricals - work experience in finance department today.

Level 1 1st term snapshot

- Carried out lab tests on raw materials.
- Our team got a design brief for a lunch box for 8-10yr old boys.
- Brought the brief to life by making our own football-shaped vacuum-moulded 'Footie Fuel' lunch box.



Level 2 1st term snapshot

- Visited Working Comfortably Ltd – all the office furniture they make is painted by robots.
- Created a quiz to test knowledge of health and safety guidelines in product manufacture.
- Learnt about quality control indicators including appearance, taste, size, weight, dimension and performance.



Level 3 1st term snapshot

- Compared Axis Components (30 staff) and Trend Textiles (600 staff) looking at customer base, suppliers, product development and delivery.
- Examined how manufacturers collect data on their competitors.
- Identified bottlenecks and suggested improvements to Conor Electricals manufacturing processes.

