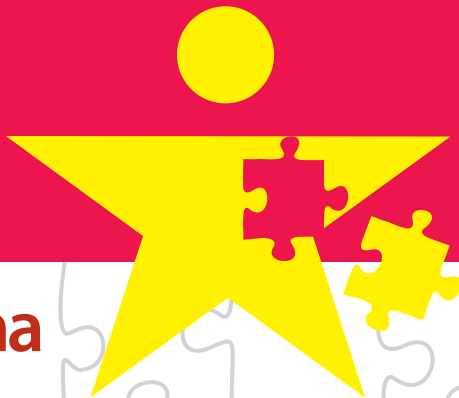


Manufacturing



The 14-19 Diploma

The Diplomas have been developed by employers and education representatives and will cover 17 sector lines. The content of each Diploma therefore highlights the requirements of a specific industry. Each Diploma will provide the student with general learning opportunities, as well as a tailored industry specific education. The Diplomas will be phased in from 2008 until 2013 and will be available in three levels:

Foundation, Higher and Advanced.

The Diploma for Environmental and Land Based studies will provide students will an introduction to the career opportunities, job roles and health and safety requirements within this sector along with learning about the practical skills needed. The Diploma reflects the needs and requirements of the industry whilst raising its profile.

How can I help?

To make the Diploma a success, schools will need the support and expertise of local employers. If you want to play a role in these new qualifications and make an investment in your future workforce, you can provide support by:

- Offering a work experience placement (up to 20 days)
- Acting as a visiting speaker
- Offering a professional development placement or work shadowing opportunity for a teacher
- Hosting a school visit
- Providing a work related activity or project brief
- Providing practical activities

Why should I get involved?

Employers can help students to make more informed choices about their future careers. By becoming involved in the delivery of the Diploma, employers can help shape the future workforce. Supporting the Diploma will provide employers with networking opportunities, along with the chance to 'buddy' with a partner school. If you feel you can help with the delivery of the Diploma and enhance this new qualification, please contact:

Debra Thackrah: 01254 584003

Manufacturing

What will be the key features?

The following themes will be covered in the diploma:

- Business and Enterprise
- Product Design and Materials Science
- Production Systems

What topics will be included?

The following areas will be covered in the Diploma:

Business and Enterprise:

This topic highlights the sub sectors of the industry and the importance of internal and external customers. The impact on the economy, social and environmental factors are discussed to reference to this sector. Students will also learn about the structure of various organisations, their legal obligations and quality assurance processes.

Product Design and Material Science:

This topic introduces the students to the principles of product design and the development process. The use of I.T such as CAD/CAM are featured and the stages which are followed to make the final products/prototype. Students will learn about scientific processes when finding suitable material and the need to ensure products are made efficiently as possible.

Production Systems:

This topic introduces students to the different principles involved in the production process i.e. quantity, cost, place and time. Risk assessment within the workplace are highlighted and the importance of equipment maintenance. Students will also learn about the relevance of quality standards such as ISO9000 and IIP.