



# **Tameside College**

**Engineering**

**Mechanical**

Applicant Study Pack

## **Description of course:**

This Engineering course has been designed to;

- Provide education and training which are directly relevant to the changing needs of employees, employers and individual vocations and professions.
- Develop in learners a range of skills and knowledge, personal qualities essential for career development and progression within the broad range of manufacturing engineering industry with examples such as fitting and machining.
- Provide learners with the necessary knowledge and skills concerning health, safety and welfare, the environment, as it impacts on and affects the manufacturing engineering sector.
- Provide opportunities for technicians to achieve a nationally recognised level 3 vocationally specific qualification.
- Develop a range of skills and techniques, personal qualities, behaviors and attitudes, essential for successful performance in working life.
- With the study of unit 331 (Maths and Science), you could progress on to Higher Education study in Engineering.

## **Task One**

1) List the 5 additional sectors of Engineering

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. Biomedical

7. Mechanical

2) Which sector deals with the way information is used around the globe?

- 3) Which sector deals with the design, development and manufacture of vehicles?
- 4) Which sector deals with the design, development and manufacture of products through flight?
- 5) Name a typical product made by the engineering sector Biomedical?
- 6) Name a typical product made by the engineering sector Mechanical?
- 7) List 2 Health and Safety issues when working in a workshop?
- 8) Name 2 types of welding
- 9) What is 'shearing'?
- 10) Name 3 types of scales of production
- 11) Which production method is best when a customer requires a product specifically for them?
- 12) Which production method is best when a product is required in very large quantities?
- 13) Give 2 Hazardous tasks that Robots can perform?
- 14) What do the letters CAD and CAM stand for?

### **Further Reading / Links**

<https://www.youtube.com/watch?v=171wsgnt1j8>

<https://www.youtube.com/watch?v=SUC9j0HoB8U>

[https://www.tameside.ac.uk/pages/course\\_info.aspx?x=173349](https://www.tameside.ac.uk/pages/course_info.aspx?x=173349)

### **What next?**

- Visit our website – [www.tameside.ac.uk](http://www.tameside.ac.uk) for more information.
- Attend our New Students' Day.
- Make it official, join us for enrolment in August. Letters will be sent to all applicants at the end of July with more details.