

## Suggestions for report layout and word-count guidance.

**This are guidance notes and suggestion only – you don't need to stick to this. Please refer to the full coursework specification when completing the tasks**

You are required to research the relevant topics and to produce a report which addresses the points listed in tasks 1 & 2.

### Task 1 – Quality Systems (QS)

Within an engineering or manufacturing context, the term Quality can encompass a range of activities. You are required to compile a report which describes, discusses the following:

- |                                                                          |             |
|--------------------------------------------------------------------------|-------------|
| Introduction                                                             | (150 Words) |
| Contents page                                                            | (n/a)       |
| • Introduction to QS (description and explanations)                      | (220 words) |
| • Importance of Quality to modern companies                              | (220 words) |
| • What are the key principles used in QS (e.g. lean)                     | (220 words) |
| • What are the key tools/techniques used in QS (quality analysis tools)? | (220 words) |

(50 marks)

### Task 2 – Principles of Measurement

The ability to measure and appraise components and assemblies is critical when ensuring quality is achieved and maintained. There are a wide range of measuring instruments available to engineers. **Select one** of the instruments from the list below and describe it's features. You should aim to explain, in which situations its use may be appropriate along with any limitations associated with its use. Explain any precautions which should be considered when using the instrument.

- Vernier Calliper
- Vernier Height Gauge
- Vernier Depth Gauge
- External Micrometre
- Internal Micrometre
- Rule and Calliper
- Slip Gauges

#### Chosen Measuring Instrument

- |                                                                  |             |
|------------------------------------------------------------------|-------------|
| • General description                                            | (150 words) |
| • Features                                                       | (150 words) |
| • In what situations its suitable to use it inc. examples        | (200 words) |
| • What are its limitations and when it's not suitable to use it. | (150 words) |
| • Any precautions which should be considered when using it.      | (150 words) |

(50 marks)

Conclusion

(150 words)

Full-Reference List

(n/a)

### Quality: A Critical Introduction

John Beckford

Taylor and Francis 2003

JOURNAL

### Total quality management.

Good source of information on Quality:

<https://asq.org/quality-resources/total-quality-management>

When I use a micrometre, it's easy to mess up the measurement if I'm not paying attention to what I'm doing.

When using a micrometre, to ensure accurate readings, its important to apply the correct pressure and concentrate on its appropriate use.