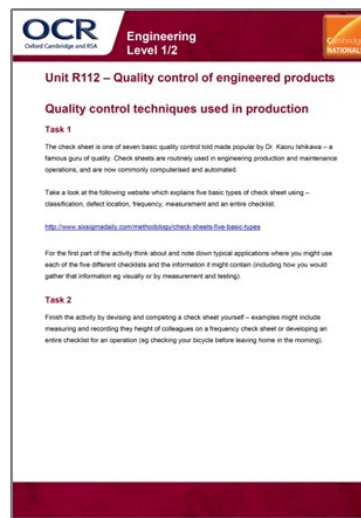# Unit R112 – Quality control of engineered products

Quality control techniques used in production

Instructions and answers for teachers

*These instructions should accompany the OCR resource **'Quality control techniques used in production'** activity which supports OCR Cambridge Nationals in Engineering.*

The Activity:

This resource comprises of 2 tasks.

This activity offers an opportunity for English skills development.

Associated materials:

'Quality control techniques used in production' activity sheet

Suggested timings:

Task 1: 1 hour

Task 1

In this activity learners are tasked to look at different types of check sheet that might be used in quality control operations. Learners are directed to a website, although teachers might use other resources. The website also includes further resources related to quality.

http://www.sixsigmadaily.com/methodology/check-sheets-five-basic-types

Learners are asked to think about typical applications of each type of check sheet, which could be in an engineering context, and to consider: the type of information the check sheet would record and how this information might be obtained (eg visually, or by measurement and testing including the type of equipment that could be used).

Task 2

For the second part of the activity learners are required to devise and complete a check sheet. The teacher might select one of the five different types for learners to produce, or learners could produce more than one type.

The check sheet could be related to an engineering activity that the learners are performing, or could be any other activity eg a check sheet for checking the safety of a bicycle, or a frequency check sheet measuring heights of class colleagues. Learners might also consider tolerances, types of measurement checks to be made and the measuring equipment required to make these.

Teachers might extend the activity by introducing sampling, although determining sample size and limits of confidence for quality control of a batch might not be appropriate due to its complexity.

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