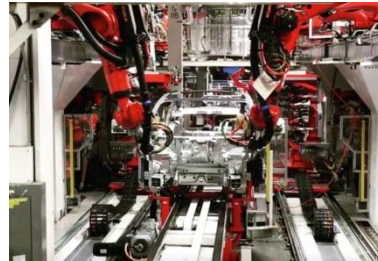


PRODUCTION LINES + AUTOMATION

The Industrial revolution (1760's) resulted in an increased demand for products. This demand originally created jobs as the machines needed manual labourers/operators to keep them running. More recently, with the introduction of intelligent machines and robotic production lines, many of these jobs have been lost.



Production Lines have now become very automated. Robotic automation of manufacturing processes offers significantly greater **consistency, accuracy, reliability** and **productivity** than human workers.

QC

QUALITY CONTROL



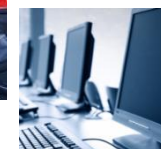
QUALITY APPROVED
BY: _____
DATE: _____

Quality Control refers to the checks carried out on a **product** during stages of its manufacture e.g. ensuring that components are positioned correctly, visually checking for surface imperfections. It guarantees the accuracy of the product and ensures that the product meets specific standards.

The frequency of QC checks depends on the quantity that is being manufactured and the complexity of the product. For mass produced products every 100, 500 or 1000 may be checked, the check is often shown by a sticker.

QA

QUALITY ASSURANCE



Quality Assurance refers to checking the quality of all systems that make the products (before, during and after manufacture). It ensures that consistency is achieved and ensures that the product meets the required standards.

Examples of checks include checking machinery is maintained and working correctly, checking the quality of materials being used and ensuring that staff are trained.