

# The Manufacturing Industry

## Manufacturing

use of machines, tools and labor to produce good for use or sale

## Raw Materials

materials derived from natural resources

## Finished Goods

processed goods formed into a product ready for consumers

## Mechanization

replacing human labor with the use of machinery

## 3D Printing

computer-controlled creation of small scale 3D solid objects

## Nanotechnology

design, production and application of structures, devices and systems by manipulating size and shape at the nanometer scale

## Nanometer

one billionth of a meter

## The Internet of Things (IoT)

technology allowing multiple electronic devices to connect in order to communicate

## Cloud Computing

practice of using a network of remote servers to store, manage and process data

## Big Data

technology allowing manufacturing industries to access, analyze and manage large data sets in real time

## Predictive Maintenance Technology

technology allowing manufacturers to simplify maintenance procedures by predicting threatening failures

## Computer Aided Design (CAD)

software used to create graphical representations of physical objects

## Occupational Safety and Health Administration (OSHA)

federal agency which governs occupational health and safety in the US

# The Manufacturing Industry

Hazard Communication (HazCom)

ensures information on chemical safety is available in the workplace

Material Safety Data Sheets (MSDS)

procedures for handling certain toxic and hazardous substances in a safe manner

Personal Protective Equipment (PPE)

protects or isolates individuals from hazards in the workplace