

Production technology

Technology is the process of applying the finding of science and other forms of enquiry to applied situations. Production technology therefore involves applying the work of researchers to develop new products and processes.

There are a range of new technologies that are being applied to improving production methods and outputs. For example, in recent years we have seen the development of ice cream varieties of chocolate products in the confectionery industry - an example of food technology. At the same time we have seen the widespread application of Information and Communications Technology to a wide range of production methods, such as:

The use of computer databases for online booking in the airline industry.

The development of broadband services, benefiting small businesses to communicate using the Internet across the country.

The use of company intranet systems to inform, and train, employees in companies like Cummins creating a more skilled and highly efficient workforce.

Molding in Manufacturing

If the products you're creating start out as liquid, chances are the manufacturer uses molding. One popular type of molding is casting, which involves heating plastic until it becomes liquid, then pouring it into a mold. Once the plastic cools, the mold is removed, giving you the desired shape. You can also use casting to make plastic sheeting, which has a wide variety of applications. There are four other types of molding: injection molding, which melts plastic to create 3-D materials such as butter tubs and toys; blow molding, used to make piping and milk bottles; compression molding, used for large-scale products like car tires; and rotational molding, used for furniture and shipping drums.

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