

The diagram explains how sugar canes are used to produce sugar. Overall, there are seven stages in the process, beginning with the growing sugar canes, followed by several physical and chemical operations such as crushing, purifying, heating, and separating, culminating in drying and cooling sugar.

First, it takes 12 to 18 months for sugar canes to grow on a farm and prepare for harvesting which can be done either manually by a farmer or automatically by means of a combine harvester. Harvested sugar canes are then crushed using a crushing machine, turning into juice. This extracted juice is purified in the next step which is done using a limestone filter. Afterward, by means of an evaporator, purified juice is heated so much that it converts into syrup. In the subsequent stage, a centrifuge operates in a way to separate sugar crystals from syrup, and finally, sugar is obtained from them through a drying and cooling process.