Production Planning

Transfer the following verbal description into a BPMN:

a) The production department received a chocolate production order. Upon receipt of the order, the production manager has to book the order in SAP.

b) Then, the recipe for the chocolate production order has to be managed and the feedback has to be sent to the Material Management (MM) department.

c) Upon sending the feedback, the MM processor checks afterwards, the materials availability (based on the materials availability document) using SAP MM and has to inform the purchaser.

d) On performing the materials availability check, either the materials are available and in that case the production process has to be prepared by the MM processor or if the materials are not available an order has to be carried out/placed by the purchaser and then the production process can be prepared.

e) Both options leads then to inform the operators to start the production (based on the production process, production recipe and the order itself).

f) In the next stage, the chocolate production process starts by the Operators.

g) Based on the production recipe, the production process & and the order, the cocoa beans have to be roasted and grinded, the cocoa powder has to be created and the cocoa mass has to be created and pressed.

h) After that, the cocoa cake & cocoa butter are created at the same time. Upon creating the option cocoa butter, the aroma has to be stirred and the milk has to be mixed at the same time and then the chocolate mass is created. The chocolate mass has then to be shaped and as a result the chocolate is created. After creating the second option (the cocoa butter), the cocoa cake has to be broken.

i) Both options are afterwards combined again to carry out packaging and finally the production order is successfully produced.

Production department

Chocolate Production Order has been received

↓SAP
Book order
Ⓡ Production Manager

↓
Manage recipe

↓
Send feedback
Ⓡ Production Manager

↓↑SAP MM
Check materials availability
Ⓡ MM Processor

carry out/place an order
Ⓡ Purchaser

Materials are not available

Materials are available

Prepare production process
Ⓡ MM Processor

↓↑
Grind cocoa beans
Ⓡ Operators

↓↑
Roast cocoa beans
Ⓡ Operators

Chocolate Production is started

↓↑
Forward the order to the operators
Ⓡ Production Manager

↓↑
Create cocoa powder
Ⓡ Operators

↓↑
Create cocoa mas
Ⓡ Operators

↓↑
Press cocoa mass
Ⓡ Operators

Cocoa cake is created

↓↑
Break cocoa cake
Ⓡ Operators

Cocoa butter is created

↓↑
Stir in the aroma
Ⓡ Operators

↓↑
Mix milk
Ⓡ Operators

Chocolate mass is created

↓↑
Shape chocolate maps
Ⓡ Operators

↑SAP MM
Check materials availability
Ⓡ MM Processor

Chocolate mass is created

↓↑
Shape chocolate maps
Ⓡ Operators

Milka chocolate is created

↓↑
Carry out packaging
Ⓡ Operators

Production Order successfully produced

(c) Donya Sowelem
Powered by ADONIS:Community Edition
www.adonis-community.com

Production Planning.adl