FIT3138 Assignment 1 Part 2

Production Planning and Supply Chain Management

Data Sheet

Name :	Jason Ching Yuen, Siu
Student Id :	31084222
Tutorial No :	…02……
SAP Id (LEARN-###)	LEARN-020

Instructions :

1. Complete your details above.
2. Copy and paste the five screenshots where indicated. Screenshots must be clear and easily readable.
3. Write you reflective essay on the last page (approx. 300 words)
4. Save the document as AAAA-9999999 Part 1.docx (or .pdf) where AAAA is your last name and 9999999 is your Student ID e.g. Smith-3678999 Part 1.docx
5. Upload the document to the submission link in Moodle.

Step A: Material Component Overview

Material: DXTR3020 Deluxe Touring Bike (red)

Plant: DL00

Group: 50000364 Sequence: 0

BOM: 00006325 Alt. BOM: 1

Item Overview

Ph...	Le...	Path	Ite...	Component	Quantity	S...	Un...	It...	Bac...	Activity	Seq.	C..	Material Description
	0	0	0010	TRWA1020	2		EA	L		0040	0		Touring Aluminum Wheel Assembly
	0	0	0020	TRFR3020	1		EA	L		0020	0		Touring Frame-Red
	0	0	0030	DGAM1020	1		EA	L		0040	0		Derailleur Gear Assembly
	0	0	0040	TRSK1020	1		EA	L		0020	0		Touring Seat Kit
	0	0	0050	TRHB1020	1		EA	L		0030	0		Touring Handle Bar
	0	0	0060	PEDL1020	1		EA	L		0070	0		Pedal Assembly
	0	0	0070	CHAN1020	1		EA	L		0050	0		Chain
	0	0	0080	BRKT1020	1		EA	L		0060	0		Brake Kit
	0	0	0090	WDOC1020	1		EA	L		0100	0		Warranty Document
	0	0	0100	PCKG1020	1		EA	L		0100	0		Packaging

Step B: Change Rough-Cut Plan

Product group: PG-DXTR020 020 Produktgruppe Deluxe Touring Bike

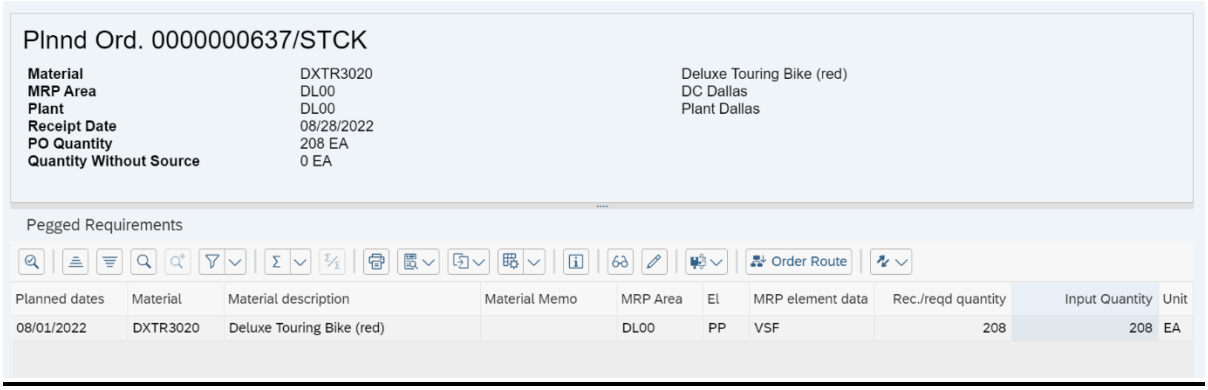
Plant: DL00

Version: A00 Active version Active

SOP: plan individual product group

Planning Table	Un	M 09/2022	M 10/2022	M 11/2022	M 12/2022	M 01/2023	M 02/2023	M 03/2023	M 04/2023
Sales	EA	661	594	574	663	728	660	638	626
Production	EA	771	579	573	674	738	660	623	627
Stock level	EA	110	95	95	106	117	117	102	104
Target stock level	EA								
Range of Coverage		5	5	5	5	5	5	5	5
Target days' supply		5	5	5	5	5	5	5	5

Step C: Pegged Requirements



Plnnd Ord. 0000000637/STCK

Material	DXTR3020	Deluxe Touring Bike (red)
MRP Area	DL00	DC Dallas
Plant	DL00	Plant Dallas
Receipt Date	08/28/2022	
PO Quantity	208 EA	
Quantity Without Source	0 EA	

Pegged Requirements

Order Route

Planned dates	Material	Material description	Material Memo	MRP Area	El	MRP element data	Rec./reqd quantity	Input Quantity	Unit
08/01/2022	DXTR3020	Deluxe Touring Bike (red)		DL00	PP	VSF	208	208	EA

Step D: Target/Actual Comparison

Order 1000079 DXTR3020
Order Type PP01 Standard production order
Plant DL00 Plant Dallas
Material DXTR3020 Deluxe Touring Bike (red)

Planned Quantity 172 EA each

Target Cost Version 0

Cumulative Data
Legal Valuation
Company Code Currency/Object Currency

Cost Element	Cost Element (Text)	Origin	Total Target Costs	Total Actual Costs	Target/actual var.	T/I var(%)	Currency
720000	Raw Material Consumption Expense	DL00/TRFR3020	0.00	34,400.00	34,400.00		USD
720000	Raw Material Consumption Expense	DL00/DGAM1020	0.00	12,900.00	12,900.00		USD
720000	Raw Material Consumption Expense	DL00/TRSK1020	0.00	8,600.00	8,600.00		USD
720000	Raw Material Consumption Expense	DL00/TRHB1020	0.00	4,300.00	4,300.00		USD
720000	Raw Material Consumption Expense	DL00/PEDL1020	0.00	7,740.00	7,740.00		USD
720000	Raw Material Consumption Expense	DL00/CHAN1020	0.00	1,720.00	1,720.00		USD
720000	Raw Material Consumption Expense	DL00/BRKT1020	0.00	12,040.00	12,040.00		USD
720000	Raw Material Consumption Expense	DL00/WDOC1020	0.00	172.00	172.00		USD
720000	Raw Material Consumption Expense	DL00/PCKG1020	0.00	602.00	602.00		USD
Raw Materials			**0.00**	**82,474.00**	**82,474.00**		**USD**
			0.00	**82,474.00**	**82,474.00**		**USD**

Step E: Orders: Actual/Plan/Variance

Orders: Actual/Plan/Variance

Print page formatting on/off | Column freeze on/off | Options / Office Integration | Send report | Select | Call up report | Sort in ascending order | Sort in descending order | Column

Orders: Actual/Plan/Variance Date: 09/04/2022 05:10:20 Page: 2 / 2

Order/Group 1000079 000001000079
Fiscal year 2022
Period 1 - 9

Cost Elements	Actual	Plan	Var.(Abs.)	Var.(%)
720000 RM Consumpt Expense	82,474.00		82,474.00	
720300 SF Consmpt Expense				
800000 Labor	4,301.55		4,301.55	
* Costs	86,775.55		86,775.55	
741600 Manufac. Output Sett	39,137.05		39,137.05	
* Settled Costs	39,137.05		39,137.05	
741600 Manufac. Output Sett	125,912.60-		125,912.60-	
* Deliveries to Stock	125,912.60-		125,912.60-	
** Balance				

Reflective Essay

Having a great idea for a product is one thing. Turning that idea into reality is another. To create real business value, regardless of how fancy your product is, you need a manufacturing and logistics system in place. Supply chain management (SCM) is a network of people, businesses, technology, and resources that come cohesively to turn into reality. *"Cohesive"* is a keyword because improper management could cost you dear. SCM answers *"Why to produce", "What to produce", "How and how much to produce",* and *"Who to produce".* We reflect on how the Production Planning module work *cohesively* in increasing efficiency in SCM.

The core benefit is to have Master Data in SAP PP (e.g., Material master, Work centre, Routing, BOM, etc). This centralised master repository allows Global Bike Group (GBG) to procure the raw materials, produce the finished product, and create a sales order in synchronise manner. Material masters includes information on materials that GBG procures, produces, stores, and sells. So, here explains how these data help optimise the resource utilisation and production inventory.

For production execution, such information helps build a BOM — a list of components with quantity needed to produce and assembly the bikes; it helps define a sequence of operation performed at the Work Centre. When working on the system, I realised how powerful it is to have a consistent material flow to convert a planned order to production order in MRP, controlling the scheduling, capacity, and costing optimally.

For production planning, after having sales requirement from Jun Lee — my supervisor, a SOP plan consolidates data for forecasting future sales and production levels. Forecasting is important because knowing market demand help estimate "how much to produce". This makes the inventory management lean and agile by preventing redundant material reacquisition and reducing days-in-inventory — the most common bottleneck in company, shipping orders according to promised delivery dates results in increased customer satisfaction.

In conclusion, this module helps us optimise the resource utilisation and production inventory.