天津大学

企业资源规划课程实验指导书



学 院<u>软件学院</u> 专 业 软件工程

指导教师_____陶文源_____

目录

: 安装并登录 SAP UCC 系统	1
肖售和分销	6
勿料管理	46
上产计划管理	80

实验准备:安装并登录 SAP UCC 系统

- 1. 实验目的
 - 1) 了解 SAP ERP 的发展历史和功能架构;
 - 2) 安装 SAP UCC 客户端并进行登录。
- 2. 实验环境
 - 1) 接入 Internet 的实验主机;
 - 2) Windows 7 操作系;
 - 3) SAP GUI.
- 3. 实验内容
 - 1) 讲解 SAP ERP 软件相关内容;
 - 2) 安装 SAP GUI 客户端并登陆 SAP UCC 系统。
- 4. 实验步骤
 - 1) 首先安装 SAP GUI (根据提示选择安装 Sapsetup GUI 即可,一路选择"下一步"直到安装完成)。
 - 2) 安装完成后 如图所示,单击"新建"。



3) 单击"创建"后如图。

创建新系统条目	×
	从以下清单中选择一个可用的系统。如果您选择第一个条目,则可以自己指定系统参数。
	下 搜索: 清除过滤器
	SID 描述 III) 用户指定系统
/	
	如果指定系统要求使用缺省值之外的 SAProuter,则从 SAProuter 下拉清单中选择其他条目。
	SAProuter:
	帮助出 取消C < 后退 B 下一步 M > 完成 D

 4) 单击"下一步"如图。描述: GBI (这里的描述可以随意填写),应用程序 服务器: 211.71.76.19,实例编号: 02,系统标示: G06,单击"下一步"。

系统条目属性	X
连接 网络 代码页	
选择连接类型并按要求更改系统参数。 如果您想让系统建议描述,则删除旧描述。 输入所 有必需的数据后,按钮"确定◎"方才激活。	
连接类型: 自定义应用程序服务器 ▼	
系统连接参数	
描述: GBI 应用程序服务器: 211.71.76.19 实例编号: 02	
系统标识: G06 SAProuter 字符串:	
· · · · · · · · · · · · · · · · · · ·	

5) 单击"下一步"。

创建新系统条目		X
	选择网络设置。	
	安全网络设置	
	「「激活安全网络通信」	
	PNC 名称	
	○身份验证	
	 ● 最大可用安全设置 	
	网络设置	
	●高速连接 (LAN)	
	○ 低速连接(网络流里减少)	
	帮助出 取消C < 后退B 下一步N > 完成C	J

6) 单击"完成"。

创建新系统条目		X
	选择前端输入/显示语言和上载/下载代码页。	
	语言设置	
	该语言确定用于 SAP GUI 与应用程序服务器之间通讯的代码页。	
	语言: 【 <u>缺省</u> ▼】	
	「上载/下载编码	
	这指定传输自或传输至后端的文件的编码。该文件将在或当前正在客户端机器硬盘上 存储。	
	编码: (缺省 - Unicode 系统的 ANSI) 🔹	
	■ お助田 ■ 取消C ■ く后退 B ■ 下一歩 M > ■ 完成 B	

7)	再一次打开	SAP GUI	在连接处可见	"GBI"	双击进入。
----	-------	---------	--------	-------	-------

🔄 SAP Logon 720		
 ▷ SAP Logon 720 登录(L) 可交登录(A) ○ 收藏夹 ○ 快捷方式 • ○ 连接 	□ / □ □ □ □ □ □ □ □ □ □ / □ □ □ □ □ □ □	■■× ■■× ■ 系统描述

8) 输入提供的账号和密码进入系统,首次进入系统需要修改密码。

	• 4 🖬 😋 🤅	8 (
SAP New password			
Client	001	Information	1
User	M	0	
Password	****	Welcome to SAP ERP 6.0 Enhancement Package 7 GBI system	
		Support Package Stack 2	

5. 实验方式

每位同学独立上机编程实验,实验指导教师现场指导。

实验1:销售和分销

1. 实验目的

了解并执行一个完整的订单到收款的周期。

- 2. 实验环境
 - 1) 接入 Internet 的实验主机;
 - 2) Windows 7 操作系;
 - 3) SAP GUI.
- 3. 实验内容

为了处理完整的订单到现金流程,学生需要在 GBI 公司内担任不同的角色, 例如,销售代理,仓库工,会计文员。总体而言,学生可以对销售和分销(SD), 物料管理(MM)和财务会计(FI)部门的具体工作进行操作。首先,学生通过在 奥兰多创建一个新客户(自行车专区)来启动销售订单流程。然后,将收到一个 通知,并将其处理成报价单。一旦报价被客户接受,就创建一个引用报价单的销 售订单。由于系统中拥有足够的自行车库存,学生可以将销售的产品交付给客户, 创建发票并接收付款。该过程的全部数据为虚拟数据供学生进行实验操作。

4. 实验步骤

1) Create New Customer

To create a new customer, follow the menu path:

Logistics ► Sales and Distribution ► Master Data ► Business Partner ► Customer ► Create ► Complete

Menu path

This will produce the following screen.

🖻 Customer Create: Initial Screen	X
Account group 20001 Sold-to party Customer	
Company code US00 Global Bike Inc.	
Sales area	
Sales Organization	
Distribution Channel	
Division	
All sales areas Customer's sales areas	
Reference	
Customer 🔛	
Company code	
Sales organization	
Distribution channel	
Reference division	
	×

Select Sold-to Party for the Account group. Enter US00 for Company code, UE00 for	
Sales Organization, WH for Distribution Channel, and BI for Division. After clicking	US00
on 🖋, the following screen will appear.	UE00
	WH

BI

Create Customer:	: General Data
🖷 Other Customer 🛛 Con	npany Code Data 🛛 Sales Area Data 🛃
Customer INTERNA	IL III
Address Control Da	ta Payment Transactions Marketing Unloading Points Export Data Contact Person
Nama	
Name	
Title	Company
Name	The Bike Zone
Search Terms	
Search term 1/2	000
Street Address	
Street/House number	2144 N Orange Ave
Postal Code/City	32804 Orlando
Country	US Region FL 🖸

Select **Company** as Title, enter **The Bike Zone** for Name and **###** for Search term 1. Remember to replace **###** with your three-digit number, e.g. 003 if your number is 003. Then, enter **2144 N Orange Ave** for Street, **32804** for Postal Code, **Orlando** for City, **US** for Country, and **FL** for Region. Then click on the expand icon **E** to access additional street address fields.

Company
The Bike Zone
###
2144 N Orange Ave
Orlando, FL 32804
US

Scroll down and click on the search icon next to the Transportation Zone field. This will produce the following pop-up window.

🔄 Transporta	ation zone to or	from which the goods are delivered (1) \dots .						
Restrict	ions							
		∇						
Country Key: US								
TranspZone	Description							
0000000001	Region East							
0000000002	Region West							

Double-click on **Region East** to select it. Clicking on Company Code Data will produce the following screen.

Region East

Account Manage	ment Payment 1	Transactions Correspondence Insurance						
Accounting information								
Recon. account	٥	Sort key						
Head office								
Authorization		Cash mgmt group						
		Value adjustment						
Interest calculation								
Interest indic.		Last key date						
Interest cycle		Last interest run						
Reference data								
Prev.acct no.		Personnel number						
Buying Group								

Enter **110000** for Recon. account (reconciliation account) and **001** for Sort key. Then click on the Payment Transactions tab.

After entering **0001** for Terms of payment and clicking on the Sales Area Data button, the following screen will appear.

0001

110000 001

Sales Shipping E	illing Documents Partn	er Functions	
Sales order			
Sales district		Order probab.	100 %
Sales Office		AuthorizGroup	
Sales Group		Item proposal	
Customer group		Acct at cust.	
ABC class		UoM Group	
Currency USD	United States Dollar	Exch. Rate Type	
Switch off rounding		PP cust. proc.	
Product attributes			
Pricing/Statistics			
Price group			
Cust.pric.proc. 1	Standard		
Price List			
Cust.Stats.Grp 1			

Make sure **USD** is entered for Currency and **1** is entered for Cust.pric.proc. Enter **1** for Cust.Stats.Grp, then click on the Shipping tab. Fill in the following data.

USD

1 1

9

Sales Shipping	Billing Documents Partner Functions	
Shipping		
Delivery Priority	02	🗸 Order Combination
Shipping Conditions	01	
Delivering Plant	MIOO	
Relevant for POD		
POD timeframe		
Partial deliveries		
Complete delivery req	d by law	
Partial delivery per item	Partial delivery allowed	
Max. partial deliveries	3	
Unlimited tol.		
Underdel. Tolerance		
Overdeliv. Tolerance		
General transportation d	ata	
Transportation zone	000000001 Region East	

As shown above, enter **02** (normal) for Delivery Priority, **01** (standard) for Shipping Conditions, **MI00** for Delivering Plant, and **3** for Max. partial deliveries. Then click on the Billing Documents tab. 01 MI00 3 Enter **FOB** and **Miami** for Incoterms, **0001** for Terms of payment, **01** for Acct.assgmt group and **0** for Tax classification for all three categories. Then click on the save icon **FOB** Miami 0001 01

	0						
The SAP system will create the master record for the new customer and assign the							
customer a unique customer number.	Customer						
Customer 0000025011 has been created for company code US00 sales area UE00 WH BI	number						
Click on the cancel icon 🎽 to return to the SAP Easy Access screen.							

2) Create Contact Person for Customer

To create a contact person, follow the menu path:

Logistics ► Sales and Distribution ► Master Data ► Business Partner ► Contact Person ► Create

This will produce the following screen.

Contact Person : Initial Screen							
Customer	25011	🗇 The Bike Zone					

If your customer number is not entered by default, then search for your new customer using the F4 help with search term **###**.

When your customer number is entered, click on \bigotimes which will produce the following screen.

###

1

0002 02 0002

Contact Per	son Create)			
🌮 Visiting Hours	🔳 Busines	s Address 🔳	Home Address	9	
Customer	25011	The Bike Zone		Orlando	
Contact person VIP Department Function Power of att. Higher partner Rep. number	NEW 001 1 0002 02		Gender Date of birth Marital Status	unknown 💌	
Call frequency	0002		Advertising m	at	
Buying habits Remarks]	
Preview 6					
Title		•			
Last name	Jones				
First name	James				

Enter **1** for VIP (management), **0002** for Department (Purchasing), **02** for Function (head of purchasing), and **0002** for call frequency (weekly). Enter whatever name you wish, and fill in any other data you like, then click on .

Your contact person will be given a unique number.

Contact person 000000005 created for customer 0000025011 person number

Click on the exit icon ${igoplus}$ to return to the SAP Easy Access screen.

Menu path

3) Change Customer

To change a customer master record, follow the menu path:

Logistics ► Sales and Distribution ► Master Data ► Business Partner ► Customer ► Change ► Sales and Distribution

Menu path

This will produce the following screen.

🔄 Customer Change: In	itial Screen		×
Customer	25011	🗇 The Bike Zone	
Rolos area			1
Sales alea	UEOO	LIQ Fact	
Sales Organization	UE 00	US East	
Distribution Channel	WH	Wholesale	
Division	BI	Bicycles	
All sales areas.		Customer's sales areas	
			_
			×

If the customer number is not entered by default, search for it using the F4 help and the search term **###** (your number). Make sure that following values are entered: **UE00** for Sales Organization, **WH** is entered for Distribution Channel, and **BI** for Division. Then, press Enter.

UE00 WH BI

On the Sales Area Data screen, select the Partner Functions tab. The following screen will appear..

Customer	25011	The Bik	e Zone	Orlando	
Sales Org.	UE00	US East			
Distr. Channel	WH	Wholesale			
Division BI Bicycles					
Sales Shi	pping E	Jilling Docume	ents Partner Functions		
Partner Function:	в				
PF Partner Funct	ion	Number	Name	Partner Description	ו
SP Sold-to party		25011	The Bike Zone		
BP Bill-to party		25011	The Bike Zone		
PY Payer		25011	The Bike Zone		
SH Ship-to party					
SH Ship-to party		25011	The Bike Zone		

In the next empty row, enter CP for PF (partner function). Click on the Number field

CP

and then on the search icon \square , which will bring up the following search window.

🖻 Restrict Value Range (
Contact Persons	
Search term	
Customer	25011
Vendor	
Last name	
First name	
Function	
Contact Person	
Maximum No. of Hits	500

Your customer number is entered automatically. Make sure that all other fields are empty like it is shown in the screenshot above. Then, click on the enter icon \checkmark to begin the search and find your newly created contact person.

🖙 Restrict \	🗁 Restrict Value Range (1) 1 Entry found								
Conta	Contact Persons								
					∇				
SearchTer	Customer	Vend	Last name	First name	Funct	Partner			
	25011		Jones	James	02	0000000005			

Double-click on the partner to enter the partner number. Click on \blacksquare to save.

Click on the cancel icon 🎽 to return to the SAP Easy Access screen.

4) Create Customer Inquiry

To create an inquiry, follow the menu path:

Logistics > Sales and Distribution > Sales > Inquiry > Create

This will produce the following screen.

Menu path

Create Inquiry: Initial Screen								
Create with Reference	<u> &</u> Sales	🙎 Item overview	🙎 Ordering party					
Inguin Tung	TN COLOR							
inquiry type	<mark>TIM T</mark>	lana						
Organizational Data								
Sales Organization	UEOO US	3 East						
Distribution Channel	WH VVI	nolesale						
Division	BI Bi	cycles						
Sales Office								
Sales Group								

Enter the following information: **IN** for Inquiry Type, **UE00** for Sales Organization, **WH** for Distribution Channel and **BI** for Division. Then click on **S**. This will produce the following screen.

IN UE00 WH

BI

Create Inquiry: Overview		
😼 🕼 🐣 🖓 🄗 🋗 Orders		
Inquiry	Netvalue	0.00
Sold-To Party		
Ship-To Party		
PO Number	PO date	<u>~</u>
Sales Item overview Item detail	Ordering party Proc	urement Shipping Reason for rejection
Valid from	Valid to	
Valid form	Valid to	0.00
Req. deliv.date	Expect.ord.val.	0.00

Click on the Sold-to party field, then click on the search icon \square , which will bring up the following search screen.

Orlando

¢	Restrict Value Range (1)		
_	Customers (general)	Customers per sales group Customers by Address Attribu	
Se	earch term 📃	000	
Po	ostal Code		
Ci	ity 🔳	Orlando	
Na	ame		
С	ustomer		
Ma	aximum No. of Hits	500	

Because you have defined a search term when we created our new customer, we can now use it to find your The Bike Zone.

Click on the Customers (general) tab, enter ### for search term and for City. Then, click on \checkmark . This will produce the new customer.

🖻 Restrict \	/alue Range	(1) 1 Entry	found				
Customers (general) Customers per sales group Customers by Address							
				∇			
✓ ■ #		9 🕒					
SearchTer	PostalCode	City	Name 1	Customer			
000	32804	ORLANDO	THE BIKE ZONE	25011			

Double-click on The Bike Zone to select it.

Inquiry		Net value		0.00
<u>Sold-To Party</u>	25011			
Ship-To Party				
PO Number	000	PO date	05/28/2010	2
				_
Sales Item	overview Item detail	Ordering party	Procurement Sh	ipping Reason for rejection
Valid from	05/28/2010	Valid to	06/28/2010	
Reg. deliv.date	D 05/28/2010	Expect.ord.val.		0.00

Enter **###** for PO Number, **today's date** for the PO date (F4, then Enter), **today's date** for the Valid from date (F4, then Enter) and a date **one month from today** for the Valid to date (F4, then select the date).

The Bike Zone wants a quote on two products – the Deluxe Touring Bike (black) and the Professional Touring Bike (black). To find these products, we need to use the

search function. Click on the material field, then click on the search icon \square .

Make sure you are on the Sales material by description tab.

Orlando

today's date one month from today

🔄 Restrict Value Range (1)	
Material by product hierarchy Sales material by description	< < I
Material description Language Key EN Sales Organization UE00 Distribution Channel WH Material Y000	
Maximum No. of Hits 500	

On the Sales material by description tab, enter Sales Organization **UE00**, Distribution Channel **WH** and Material *### (e.g. *005 if your number is 005). Then click on \checkmark to get the list of bicycles.

UE00 WH *###

🔄 Restrict Value Range (1) 18 Entries for	und				
Material by product hierarchy	Sales mat	terial by	y desc	ription	
		∇			
🖌 🛛 🖨 🕷 🚳 🗖 🛓 🛔					
Material description	Language	SOrg.	DChl	Material	
AIR PUMP	EN	UE00	WH	PUMP1000	
DELUXE TOURING BIKE (BLACK)	EN	UE00	WH	DXTR1000	
DELUXE TOURING BIKE (RED)	EN	UE00	WH	DXTR3000	
DELUXE TOURING BIKE (SILVER)	EN	UE00	WH	DXTR2000	
ELBOW PADS	EN	UE00	WH	EPAD1000	
FIRST AID KIT	EN	UE00	WH	FAID1000	
KNEE PADS	EN	UE00	WH	KPAD1000	
MEN'S OFF ROAD BIKE	EN	UE00	WH	ORMN1000	
OFF ROAD HELMET	EN	UE00	WH	OHMT1000	
PROFESSIONAL TOURING BIKE (BLACK)	EN	UE00	WH	PRTR1000	
PROFESSIONAL TOURING BIKE (RED)	EN	UE00	WH	PRTR3000	
PROFESSIONAL TOURING BIKE (SILVER)	EN	UE00	WH	PRTR2000	
REPAIR KIT	EN	UE00	WH	RKIT1000	
ROAD HELMET	EN	UE00	WH	RHMT1000	
T-SHIRT	EN	UE00	WH	SHRT1000	
WATER BOTTLE	EN	UE00	WH	BOTL1000	
WATER BOTTLE CAGE	EN	UE00	WH	CAGE1000	
WOMEN'S OFF ROAD BIKE	EN	UE00	WH	ORWN1000	

Double-click on the **Deluxe Touring Bike (black)** to select it and enter an order quantity of **5** pieces.

DXTR1###

5

Sales	Item overview	em detail 🛛 Ordering p	arty	Proc	urement Shipping Reason for rejection					
Valid from Req. deliv.o	05/28/2010 date D 05/28/20	Valid to Expect.ord	.val.	06.	0.00					
All items	All items									
Item	Material	Order Quantity	SU	Altitm	Description					
	5	1								

Repeat the process to enter a quantity of **2** of the **Professional Touring Bike (black)**. Click on the enter icon I to determine the price for this order.

PRTR1###

2

	tion
Valid from 05/28/2010 Valid to 06/28/2010	
Req. deliv.date D 05/28/2010 Expect.ord.val. 6,420.00 USD	
All items	
Item Material Order Quantity SU AltItm Description	
10 DXTR1000 5EA Deluxe Touring Bike (black)	
20 PRTR1 000 2 EA Professional Touring Bike (black)	

The total price for these 7 bikes to The Bike Zone is 21,400.00, which is given by the net value. The Expect.ord.val (6,420.00) is a calculated value which takes the net value of the order and multiplies it by the probability of having an inquiry from this customer turn into an actual order. Use the scroll icon to get to the Order probability column (two columns right of the Net value column).

S	ales	Iten	n overview Item detail	Orderin	ng party Proci	urement Shipping	Re	eason for rejection		
Valid	from		05/28/2010	Valid to	067	28/2010				
Req.	deliv.d	date	D 05/28/2010	Expect	.ord.val.	6,420.00	USD]		
	itomo									
All	items	s								
All	items Hi	s lighe	Netvalue	BOM exp	Order probability	Engineering change	Curr.	Reason for rejection		
All Ite	items Hi N	s lighe	Net value 15,000.00	BOM exp	Order probability 30	Engineering change	Curr. USD	Reason for rejection	•	

The order probability of 30% is the default value that was set for GBI for inquiry documents. The expected order value is then $0.30 \times 21,400.00 = 6,420.00$. We can change the order probability for an inquiry, which makes sense as different customer inquiries would have different probabilities of becoming an actual sales order.

Change the order probabilities to **70**%, then click on the enter icon \bigotimes to update the inquiry and note the new Expect.ord.val of 14,980.00.

Sales	Item	overview / Item detail	Orderir	ng pa	rty Procurement	Ship	oping Reason for rejection
Valid from	n	05/28/2010	Valid ti	0	06/28/2010]	
Req. deliv	v.date	D 05/28/2010	Expect	t.ord	.val.	14,98	0.00 USD
All item	ns						
Ite	High	Net value	BOM ex	0	Engineering change	Curr.	Reason for rejection
AFN		15,000.00		70		USD	-
AFN		6,400.00		70		USD	•

Click on 🕒 to save the inquiry. The SAP system will assign a unique number to the inquiry.

Inquiry number

75

Click on the exit icon \mathfrak{G} to return to the SAP Easy Access screen.

5) Create Customer Quotation

The Bike Zone would like a firm quote for the items in the inquiry created before. We can do this easily by copying the details from the inquiry into the new quotation. To do this, follow the menu path:

Logistics Sales and Distribution Sales Quotation Create

This will produce the following screen.

Menu path

QT

Create Quotation	n: Initial S	Screen	
Create with Reference	<u> &</u> Sales	🙎 Item overview	🙎 Ordering party
Quotation Type	QT 🗗 Qua	otation	
Organizational Data			
Sales Organization	UE00 US	East	
Distribution Channel	WH Wh	olesale	
Division	BI Bicy	cles	
Sales Office			
Sales Group			

Enter **QT** for Quotation Type, then click on Create with Reference. This will produce the following screen.

Create with Reference	×
Inquiry Quotation Order Contract SchedAgree BillDoc	
Inquiry Cate	
Search Criteria	
Pur. Order	
Sold-to party	
WBS Element	
Bearch Search	

Make sure the Inquiry tab is selected, click on the Inquiry field, then on the search

icon icon
In this will produce the following search window.

🔄 Sales Document (1)	
Sales documents, not t	ully confirmed Sales documents by customer 📗 🔳 🗐
Partner	
Partner Function	SP
Sales Organization	UE00
Sales Office	
Sales Group	
Distribution Channel	
Division	
Sales Document Type	
Purchase order no. 📃	000
Document Date	
Created by	
Valid from	
Valid to	
Transaction group	1
Sales Document	
Maximum No. of Hits	500

In the Sales documents by customer tab, enter your Purchase order no. (###), then click on \checkmark . This will produce a list with the inquiry for The Bike Zone.

###

🔄 Sali	Sales Document (1) 1 Entry found											
S	Sales documents, not fully confirmed Sales documents by customer Delayed sales docu											
	∇											
V												
Partn	Funct	SOrg. SO	SGrp	DChl	Dv SaTy	Purchase order	Doc. Date	Created	Valid from	Valid to	TrG	Document
26014	00	11500		10211	DUINT	000	05/20/2010	CDI 024	05/20/2010	06/20/2010	4	10000005

Double-click on the inquiry to select it, and the inquiry number will be copied in the Create with Reference window.

🔄 Create with Reference			X
Inquiry Quotation	Order Contract	SchedAgree BillDoc	_
Inquiry Requested deliv.date		0	
Search Criteria			
Pur. Order			
Sold-to party			
WBS Element			
B Search]		

Click on the \checkmark Copy button to copy information from the inquiry into the quotation screen.

Quatation		Notvoluo			21 400 00 USD								
QUOTATION		INEL VAIUE			21,400.00 000								
Sold-To Party	25011	5011 The Bike Zone / 2144 N Orange Ave / Orlando FL 32804											
Ship-To Party	25011	011 The Bike Zone / 2144 N Orange Ave / Orlando FL 32804											
PO Number		PO date											
Sales Item overview Item detail Ordering party Procurement Shipping Reason for rejection													
Valid from	05/28/201	0 Valid to											
Req. deliv.da	ate D 05/28	/2010 Expect.ord	l.val.		14,980.00 USD								
All items													
Item	Material	Order Quantity	SU	Altitm	Description								
101	DXTR1000	5	ēΑ		Deluxe Touring Bike (black)								
201	PRTR1000	2	EA ?		Professional Touring Bike (black)								

Enter **###** as PO number again, **today's date** for the PO date, a date **one month from today** for the Valid to date, and a date **one month from today** for the Req. deliv.date. Then click on the enter icon *(C)*, which will produce the following warning.

today's date one month from today one month from today

🔥 The default date is not copied into existing schedule lines

Click on the enter icon \bigotimes to acknowledge the warning. This will produce an information message.



Click on the enter icon \checkmark to acknowledge this information.

To encourage The Bike Zone to become a loyal customer, you have been authorized to give a \$50.00 discount on each Deluxe Touring bike, as well as a 5% discount on the entire order.

To add the \$50.00, select the Deluxe Touring bike line in the order, then click on the Item conditions icon 3. You will get a screen that shows the pricing details for your Deluxe Touring Bike.

Pricing E	lements									
NCnTy	Name	Amount	Crcy	per	U	Condition value	Curr.	Status	NumC	. OUn
😑 PR00	Price	3,000.00	USD	1	ΕA	15,000.00	USD		1	EA
	Gross Value	3,000.00	USD	1	EA	15,000.00	USD		1	EA
	Discount Amount	0.00	USD	1	EA	0.00	USD		1	EA
	Rebate Basis	3,000.00	USD	1	EA	15,000.00	USD		1	EA
	Net Value for Item	3,000.00	USD	1	EA	15,000.00	USD		1	EA
	Net Value 2	3,000.00	USD	1	EA	15,000.00	USD		1	EA
	Total	3,000.00	USD	1	EA	15,000.00	USD		1	EA
😑 SKTO	Cash Discount	0.000	*			0.00	USD		0	
VPRS	Internal price	1,400.00	USD	1	ΕA	7,000.00	USD		1	EA
	Standard - USA Mith	1,600.00	USD	1	EA	8,000.00	USD		1	EA

In SAP, pricing is done using conditions. The pricing procedure defines which condition types are to be used to calculate the final price. Condition type PR00 is a gross price condition. To add a discount, we can add condition type **K004** (material discount) with an amount of **50** to the pricing procedure.

		Total	3,000.00	USD	1	EA
	SKTO	Cash Discount	0.000	*		
	VPRS	Internal price	1,400.00	USD	1	ΕA
		Standard - USA With	1,600.00	USD	1	EA
	K004		50			

K004 50

After clicking on the enter icon \bigotimes , a new price for the 5 Deluxe Touring bikes will be calculated.

NCnTy	Name	Amount	Crcy	per	U	Condition value	Curr.	Status	NumC	OUn
🗃 PROO	Price	3,000.00	USD	1	ΕA	15,000.00	USD		1	EA
	Gross Value	3,000.00	USD	1	ΕA	15,000.00	USD		1	EA
🗖 K004	Material	50.00-	USD	1	ΕA	250.00-	USD		1	EA
	Discount Amount	50.00-	USD	1	EA	250.00-	USD		1	EA
	Rebate Basis	2,950.00	USD	1	EA	14,750.00	USD		1	EA
	Net Value for Item	2,950.00	USD	1	EA	14,750.00	USD		1	EA
	Net Value 2	2,950.00	USD	1	ΕA	14,750.00	USD		1	EA
	Total	2,950.00	USD	1	ΕA	14,750.00	USD		1	EA
🗃 SKTO	Cash Discount	0.000	*			0.00	USD		0	
🛛 VPRS	Internal price	1,400.00	USD	1	ΕA	7,000.00	USD		1	EA
	Standard - USA With	1,550.00	USD	1	EA	7,750.00	USD		1	EA

Note that the discount is now applied to the order. Click on the back icon to return to the main quotation screen.

To apply a 5% discount to the entire order, follow the pull-down menu path:

Goto ► Header ► Conditions

This will produce the following screen.

☞ <u>S</u> ales document <u>E</u> dit (<u>G</u> oto Extr <u>a</u> s E	Environment	System <u>H</u> elp
Ø	<u>O</u> verview		🗑 🖟 🕂 🕰 🕄 🐺 🖉 🛛 🚱 📑
	<u>H</u> eader •	S <u>a</u> les	
Create Quotation:	<u>I</u> tem ►	Shippi <u>n</u> g	
	⊻iew	<u>C</u> ontract D	Data
	<u>B</u> ack F3	B <u>i</u> lling	
Quotation		Payment c	cards 21,150.00 USD
Sold-To Party 25011	The Bike Zone	Bi <u>l</u> ling plar	in L <u>32804</u>
Ship-To Party 25011	The Bike Zone	Acco <u>u</u> nting	g <u>L 32804</u>
PO Number 000		C <u>o</u> nditions	s 🖉 🖉
		Account as	ssignment
Sales Item overview	Item detail	<u>P</u> artner	Shipping Reason for rejection
		T <u>e</u> xts	
Valid from 05/28/2	010	Purchase (or <u>d</u> er data
Req. deliv.date D 067	28/2010	<u>S</u> tatus	14,805.00 USD
		Additional	I data A
All items		Additional	Functions
Item Material	Order Quantity		Autor Description
10DXTR1000		5 EA	Deluxe Touring Bike (black)
20 PRTR1000		2 EA	Professional Touring Bike (black)
	D		

To apply the 5% discount, enter CnTy (condition type) **RA00** (Net Discount) with an amount of **5**, then click on 3. Note that the price does not yet include the 5% discount.

5

N CnTy	Name	Amount	Crcy	per	U	Condition value	Curr.	Status	Condition value	CdCur	Stat
😑 PR00	Price					21,400.00	USD		0.00		
	Gross Value					21,400.00	USD		0.00		
😑 K004	Material					250.00-	USD		0.00		
	Discount Amount					250.00-	USD		0.00		
	Rebate Basis					21,150.00	USD		0.00		
	Net Value for Item					21,150.00	USD		0.00		
	Net Value 2					21,150.00	USD		0.00		
	Total					21,150.00	USD		0.00		
😑 SKTO	Cash Discount					0.00	USD		0.00		\checkmark
VPRS	Internal price					10,000.00	USD		0.00		\checkmark
	Standard - USA With					11,150.00	USD		0.00		
RAGO			5								

To include the 5% discount, click on the activate icon 1 .

Pricing E	lements										
NCnTy	/ Name	Amount	Crey	per	U	Condition value	Curr.	Status	Condition value	CdCur	Stat
PR00	Price					21,400.00	USD		0.00		
	Gross Value					21,400.00	USD		0.00		
💼 K004	Material					250.00-	USD		0.00		
😑 RA00	% Discount from Net	5.000-	\$			1,057.50-	USD		0.00		
	Discount Amount					1,307.50-	USD		0.00		
	Rebate Basis					20,092.50	USD		0.00		
	Net Value for Item					20,092.50	USD		0.00		
	Net Value 2					20,092.50	USD		0.00		
	Total					20,092.50	USD		0.00		
😑 SKTO	Cash Discount					0.00	USD		0.00		\checkmark
VPRS	Internal price					10,000.00	USD		0.00		\checkmark
	Standard - USA With					10,092.50	USD		0.00		

The 5% discount is now applied. Note that it is applied to the price **after** the \$50 discount per Deluxe Touring bike. Click on \blacksquare to save the new quotation. Click on the exit icon 3 to return to the SAP Easy Access screen.

6) Create Sales Order Referencing a Quotation

To create a sales order, follow the menu path:

Logistics ► Sales and Distribution ► Sales ► Order ► Create

This will produce the following screen.

Create Sales Order: Initial Screen											
Sales 🛛 🚨 Item overview	🙎 Ordering party										
Standard Order											
0 US East											
Wholesale											
Bicycles											
]											
	C Standard Order	Initial Screen Sales Item overview Standard Order US East Wholesale Bicycles									

Menu path

Enter Order Type **OR**. The other fields do not necessarily need to be filled. Then, click on the Create with Reference icon. This will produce the following pop-up search window.

🕞 Create with Reference		X
Inquiry Quotation	Order Contract SchedAgree BillDoc	
Quot. Requested deliv.date		
Search Criteria		
Pur. Order		
Sold-to party		
WBS Element		
B Search)	

Make sure that the Quotation tab is selected, click on the Quotation field, then on

the search icon \square .

On the following search window, make sure you select the Sales document according to customer PO number tab, enter ### for PO number, then click on the enter icon \checkmark .

🔄 Sales Document (1) 1 Entry found											
Sales document according to customer PO number								documents,	not f	ully])	
					V						
Purchase order	SOrg.	Sold-to	DChl	Dv SO	SGrp	Created	SaTy	PO date	TrG	Document	Item

After double-clicking on the quotation, the number for the quotation will be entered into the Create with Reference window.

With the Quotation number entered, click on the \checkmark Copy icon to copy the information from the quotation into the sales order screen.

###

Create Stand	dard Orde	r: Overview	N						
5 G 🕹 🕼	🔗 🕴 🛗 Orde	ers							
Standard Order <u>Sold-To Party</u> <u>Ship-To Party</u> <u>PO Number</u>	25011 25011 000	The Bike Zone The Bike Zone	Net value / 2144 N (/ 2144 N (PO date	Dran Dran	ge Av ge Av	20,092.50 USD ve / Orlando FL 32804 ve / Orlando FL 32804 105/28/2010	2		
Sales Item	overview Ite	em detail 🛛 C)rdering pa	arty	F	Procurement Shipping R	eason for rejection		
Req. deliv.date D 06/28/2010 Deliver.Plant Complete div. Total Weight 57,170 6 Delivery block Volume 0.000									
Billing block Payment card		✓ F	Pricing dat Exp.date	e		05/28/2010			
Card Verif.Code Payment terms 0001 Pay immediately w/o Incoterms F0B Miami Order reason									
All items									
Item Material		Order Quantity		Un	S	Description	Customer Material Numb	ltCa	DGIP
<u>10</u> DXTR10	90		5	ΕA		Deluxe Touring Bike (black)		TAN	
20 PRTR10	90		2	FA		Professional Touring Bike (black		TAN	

Enter ### for PO number and **today's date** (F4, then Enter) for the PO date. Note that the Req.deliv.date is copied from the quotation. Click on 🕒 to save the sales order. The SAP system will assign a sales order number.

today's date

📝 Standard Order 7 has been saved

Click on the exit icon \mathbf{G} to return to the SAP Easy Access screen.

7) Check Stock Status

We can check on the inventory level of the bikes in the sales order for The Bike Zone. To do this, follow the menu path:

Menu path

Logistics ► Materials Management ► Inventory Management ► Environment ► Stock ► Stock Overview

This will produce the following screen.

Stock Overview: Compa	Stock Overview: Company Code/Plant/Storage Location/Batch							
⊕								
Database selections								
Material								
Plant	to 🖻							
Storage location	to 🕞							
Batch								
Stock Type Selection								
✓Also Select Special Stocks								
☑ Also Select Stock Commitments								

To find the material number for your bikes, click on the Material field, then click

on the search icon \square .

Use the far-right icon \Box to select the tab Sales material by description. Enter

UE00 for Sales Organization, **WH** for Distribution Channel and Material *### (e.g. *002 if your number is 002). Then click the enter icon \checkmark to find the list of materials.

🖻 Material Number (1) 18 Entries found		_				
Material by task list Sales m	aterial by d	escriptio	n	Mater	ial by Material	
		∇				
Image: A the second						
Material description	Language	SOrg. [DChl	Material		
AIR PUMP	EN	UE00 \	ΛΉ	PUMP1000		
DELUXE TOURING BIKE (BLACK)	EN	UE00 \	ΛΗ	DXTR1000		
DELUXE TOURING BIKE (RED)	EN	UE00 \	ΛH	DXTR3000		
DELUXE TOURING BIKE (SILVER)	EN	UE00 \	ΛH	DXTR2000		
ELBOW PADS	EN	UE00 \	ΛΉ	EPAD1000		
FIRST AID KIT	EN	UE00 \	ΛΉ	FAID1000		
KNEE PADS	EN	UE00 \	ΛH	KPAD1000		
MEN'S OFF ROAD BIKE	EN	UE00 \	ΛH	ORMN1000		
OFF ROAD HELMET	EN	UE00 \	ΛH	OHMT1000		
PROFESSIONAL TOURING BIKE (BLACK)	EN	UE00 \	ΛΉ	PRTR1000		
PROFESSIONAL TOURING BIKE (RED)	EN	UE00 \	ΛΉ	PRTR3000		
PROFESSIONAL TOURING BIKE (SILVER)	EN	UE00 \	ΛΉ	PRTR2000		
REPAIR KIT	EN	UE00 \	ΛΉ	RKIT1000		
ROAD HELMET	EN	UE00 \	ΛΉ	RHMT1000		
T-SHIRT	EN	UE00 \	ΛΉ	SHRT1000		
WATER BOTTLE	EN	UE00 \	ΛΉ	BOTL1000		
WATER BOTTLE CAGE	EN	UE00 \	ΛΉ	CAGE1000		
WOMEN'S OFF ROAD BIKE	EN	UE00 \	ΛΉ	ORWN1000		

Double-click on the Deluxe Touring Bike (black) to select it.

Database selections			
Material	DXTR1000		
Plant	MIOO 🗖	to	=
Storage location		to	=
Batch		to	

With the material number entered from the search list, enter **MI00** for Plant. Then click on the execute icon \bigoplus to look at the stock level.

MI00

UE00

WΗ

*###

Stock Overview: Basic List									
ri 3									
Selection									
Material	erial DXTR1000 Deluxe Touring Bike (black)								
Material Type	FERT	Finished Product							
Unit of Measure	Unit of Measure EA Base Unit of Measure		EA						
Stock Overview									
V 2 1	Detailed Dis	play							
Client/Company Code/P	lant/Storage Locat	tion/Batch/Special Stock	Unrestricted use	Qual. inspection					
🔻 基 Full			100.000						
🔻 🖳 USOO Global B	Bike Inc.		100.000						
🔻 🔤 MIOO DC N	liami		100.000						
• 🎛 FG00 F	Finished Goods		100.000						

This report gives stock levels for the DC in Miami.

You can get more detail on the stock of black Deluxe Touring bikes. Select the Miami DC, then click on the Detailed Display icon. This will give you very specific information about the inventory of black Deluxe Touring bikes.

🔄 Stock Overview: Basic List	[×
Stock Pint Pint Mi00		
PInt		
Stock Type	Stock	
Unrestricted use	100.000	•
Qual. inspection	0.000	,
Returns	0.000	
On-Order Stock	0.000	
Consgt ordered	0.000	
Reserved	0.000	
Stck trans.(plnt)	0.000	
Transfer (SLoc)	0.000	
Consgt unrestr.	0.000	
Consgt qual.insp.	0.000	
GR Blocked Stock	0.000	
Cust. inquiries	0.000	
Cust. quotations	0.000	
Sales orders	5.000	
Cust.sched.agmts	0.000	
Cust. contracts	0.000	
Deliv. w/o charge	0.000	

Note the 5 bikes that are part of the sales order. Click on the enter icon \checkmark to close the Detailed Display window, then click on the back icon to return to the main screen.

Use the search function to enter the material number for the Professional Touring bike (black). Click on the execute icon and review the stock level for this bike. Click on the exit icon to return to the SAP Easy Access screen.

8) Display Sales Order

To display a sales order, follow the menu path:

Logistics > Sales and Distribution > Sales > Order > Display

This will produce the following screen.

Menu path

###

Display	y Sales Ordei	r: Initial Scree	n
<u>&</u> Sales	🙎 Item overview	🙎 Ordering party	🛛 🚹 Orders 🚽 🔂 🔦
Order	7		0
	*		
Search Crit	eria		
Purchase C	Order No.		
Sold-to part	ty		
Delivery			
Billing Docu	ument		
WBS Eleme	ent		
H	Search		

To make sure you have the correct sales order number, use the search function to

find it. Click on the order field, then click on the search icon 🗖. This will bring up the

search pop-up window.

After entering your PO number ###, click on the enter icon \checkmark to get a list of sales orders.

🔄 Sales Document (1) 1 Entry found											
Sales document according to customer PO number Sales documents, not fully											
					2						
	æ 🔞		ł								
Purchase order SOrg. Sold-to DChl Dv SO SGrp Created SaTy PO date TrG Document Item										Itom	
Purchase order	Sorg.	Sola-to	DCIII	DV 30	Solb	created	Saly	POuale	110	Document	nem

After double-clicking on your sales order number, click on \bigotimes to display the sales order. This will produce the following sales order items.

l	All items									
	ltem	Material	Order Quantity	Un	S	Description	Customer Material Numb			
	<u>10</u>	DXTR1000	5	ΕA		Deluxe Touring Bike (black)				
	<u>20</u>	PRTR1000	2	ΕA		Professional Touring Bike (black)				

Select the Professional Touring bike line item, then click on the display availability icon $\frac{1}{2}$ to explore the stock for this item in detail.

Material	PRTR1000					
	Professional Tour	ing Bike (black)		_		
Plant	MIGO	Avail. check	02 Check.rule			
		🔲 With reqmts qtys				
Base Unit	EA					
Totals display						
Receipts	80					
Issues	2	Confirmd issues	2			
ATP situation						
Date	MRP e MRP elemen	it data	Rec./reqd qty	Confirmed	Cum. ATP qty	
05/28/2010	Stock		80		76	8 🔺
05/28/2010	CusOrd Totals rec	ord	2-	2	78	8 👻
05/28/2010	SLocSt F600		80		80	0

This screen shows that, in this case, there are actually 80 bikes in stock and the order we are displaying will use 2 of these.

Note Your numbers may be different. Clicking on the *Scope of check* icon will produce the following pop-up window.

wailability check 02 Individ.requireme Checking rule A SD order	nts						
Stock overview	In/outward movements						
🗌 Include safety stock	☑ Incl.purchase orders						
🗌 Incl.stock in transfer	Incl. purch.requisitions						
🗌 Incl.quality insp. stock	🗌 Incl. dependent regs						
Include blocked stock	✓Include reservations						
Include restricted-use stock	✓ Include sales reqmts						
W/o subcontracting							
	Incl.ship.notificat.						
Replenishment lead time	Incl.depen.reservat.	🗌 Do not check					
Check without RLT	Incl.rel.order reqs	Do not check					
	Incl. planned orders	Do not check					
Storage location inspection	Incl. production orders	🗌 Do not take into acc					
No storage location inspection							
	Receipts in the past						
	Include receipts from past	and future					

This screen displays the elements considered when performing the availability check. For example, Incl. purchase orders is selected, which means that a purchase order will be considered as available stock from its receipt date onward.

Click on the cancel icon lpha to close the pop-up window, then click on the back icon to return to the overview screen.

All item:	S						
Item	Material	Order Quantity	Un	S	Description	Customer Material Numb	ltCa
10	(DXTR1000	5	EA		Deluxe Touring Bike (black)		TAN
20	PRTR1000	2	ΕA		Professional Touring Bike (black)		TAN

After selecting the Deluxe Touring bike line and clicking on the item conditions icon (2), the following screen will be displayed.

Pri	cing E	lements									
N.,	CnTy	Name	Amount	Crcy	per	U	Condition value	Curr.	Status	NumC	. OUn
	PROO	Price	3,000.00	USD	1	ΕA	15,000.00	USD		1	EA
		Gross Value	3,000.00	USD	1	EA	15,000.00	USD		1	EA
	K004	Material	50.00-	USD	1	ΕA	250.00-	USD		1	EA
	RAOO	% Discount from Net	5.000-	*			737.50-	USD		0	
		Discount Amount	197.50-	USD	1	EA	987.50-	USD		1	EA
		Rebate Basis	2,802.50	USD	1	EA	14,012.50	USD		1	EA
		Net Value for Item	2,802.50	USD	1	EA	14,012.50	USD		1	EA
		Net Value 2	2,802.50	USD	1	EA	14,012.50	USD		1	EA
		Total	2,802.50	USD	1	EA	14,012.50	USD		1	EA
	SKTO	Cash Discount	0.000	*			0.00	USD		0	
	VPRS	Internal price	1,400.00	USD	1	ΕA	7,000.00	USD		1	EA
		Standard - USA Mith	1,402.50	USD	1	EA	7,012.50	USD		1	EA

The details of the price calculation for the Deluxe Touring bike are displayed. Note the two discounts that were manually applied to this line item. Click on the back icon twice to return to the overview screen.

Click on the exit icon ${f Q}$ to return to the SAP Easy Access screen.

9) Start Delivery Process

To start the process that will fulfill The Bike Zone's order, we need to create a delivery document. To do this, follow the menu path:

```
Logistics ► Sales and Distribution ► Shipping and
Transportation ► Outbound Delivery ► Create ► Single
Document ► With Reference to Sales Order
```

Menu path

This will produce the following screen.

Create Outbound Delivery with Order Reference												
🗋 With Order Reference	🗋 Woo Order Reference 🔄 🔂 🧟 🚇 🏖 🗎 🐲 😰 🖉 Post God											
Shipping point	MI00 San Diego											
Sales order data												
Selection date	06/05/2010											
Order												
From item												
To item												
Predefine delivery type												
Delivery Type												

Enter **MI00** for Shipping Point. Enter a selection date **one week from today** (you can use **F4** to call up the calendar window).

If the sales order number is not entered automatically, you can search for you sales order number using the Sales documents according to customer PO number tab. Enter your PO number (###).

Then click on the enter icon \bigotimes .

MI00 one week from today

	Item Overview Picking Loading Transport Status Overview Goods Movement Data													
Picl Wa	Pick Date/Time 05/28/2010 00:00 OvrIIPickStatus A Not yet picked Warehouse No. OverallWMStatus No WM trnsf ord reqd													
	All Items	3												
	ltm	Material	PInt	SLoc	Deliv. Qty	Un	Picked Qty	Un	Batch E	9 P	WStag. Date	M	Val. Type	Description
	10	DXTR1000	MIGO		5	EA		EA		A	05/28/2010	00:1		Deluxe Touring Bike (black)
	20	PPTP1000	MIGO		2	E A		E A	l l	- la	05/29/2010	00.1		Professional Touring Bike (blask)

Select the Deluxe Touring bike line, then click on the details icon \square , which will produce the following screen.

Processing	Material Batch Split Picking	Loading and Shipment Foreign Trade/Customs Financial Processing
Quantities and we	ights	
Pick quantity	0 EA	
Dlv.quantity	5 EA	Div.qty 5 EA
Conversion	1 EA	<-> 1 EA
Gross weight	42,550 6	Over. Tol. 0.0 % Unlimited
Net weight	42,550	Under.Tol. 0.0 %
Volume		
Material		
Batch	Batch mgmt	Stor.cond. DGProfile
Trans. Group	0001 On pallets	Temp.conds
Warehouse		
Mat.Avail.Date	05/28/2010 00:00	Pick.stat A Not yet picked
		WM status No WM trnsf ord reqd
Plant	MI00 DC Miami	
Stor. Location		
Storage Bin		

This screen shows that the order has not yet been picked. After clicking on \square , a delivery document will be created with a unique document number

Outbound delivery document number

🗹 Outbound Delivery 80000006 has been saved

Click on the exit icon \mathbf{G} to return to the SAP Easy Access screen.

10) Check Stock Status

To check on the inventory for the bikes in the sales order for The Bike Zone, follow the menu path:

Logistics ► Materials Management ► Inventory Management ► Environment ► Stock ► Stock Overview

This will produce the following screen.

Stock Overview: Company Code/Plant/Storage Location/Batch										
⊕										
Database selections										
Material	DXTR1000									
Plant	MI00 🗂	to	S							
Storage location		to	S							
Batch		to	=							

Menu path

If the Material and Plant fields are not automatically filled in, click on the Material field, then click on the search icon ¹. Use the Sales material by description tab with **UE00** for Sales Organization, **WH** for Distribution Channel and *### for Material. Pick the black Deluxe Touring bike. Then, enter **MI00** in the Plant field.

UE00 WH *### MI00

When the Material and the Plant field are correctly filled (compare with the screenshot above), click on . This will produce the following screen.

Stock Overview: Basic List											
ri 🕄											
Selection											
Material	DXTR1000	🗇 eluxe Touring Bike (black)									
Material Type	FERT	Finished Product									
Unit of Measure	EA	Base Unit of Measure	EA								
Stock Overview											
🗟 🕲 📮	🕄 Detailed Dis	play									
Client/Company Code/Pl	lant/Storage Locat	ion/Batch/Special Stock	Unrestricted use	Qual. inspection							
🔻 遇 Full			100.000								
🔻 🦉 USOO Global E	Bike Inc.		100.000								
🚽 🖛 🖬 MIOO DC M	liami		100.000								
• 🎛 FG00 F	inished Goods		100.000								

Select the Miami DC, then click on the 🖾 Detailed Display icon.

🔄 Stock Overview: Basic List	×
Stock Pint Pint Mi00	,
PInt	
Stock Type	Stock
Unrestricted use	100.000
Qual. inspection	0.000 👻
Returns	0.000
On-Order Stock	0.000
Consgt ordered	0.000
Reserved	0.000
Stok trans.(plnt)	0.000
Transfer (SLoc)	0.000 #
Consgt unrestr.	0.000
Consgt qual.insp.	0.000
GR Blocked Stock	0.000
Cust. inquiries	0.000
Cust. quotations	0.000
Sales orders	0.000
Cust.sched.agmts	0.000
Cust. contracts	0.000
Deliv. w/o charge	0.000
Schd.for delivery	5.000
Rcpt reservation	0.000

Note that the 5 bikes for The Bike Zone order are now showed as Schd. for delivery.

Click on the enter icon \checkmark to close the Detailed Display window. Click on the exit icon 3 to return to the SAP Easy Access screen.

11) Pick Materials on Delivery Note

To record the picking of the material, we change the delivery document. To change the delivery document, follow the menu path:

Logistics ► Sales and Distribution ► Shipping and Transportation ► Outbound Delivery ► Change ► Single Document

This will produce the following screen.

Menu path



If the Outbound Delivery document number is not entered automatically, you can search for your delivery document using the tab Outbound Delivery: Not Posted for Goods Issue (**MIOO** for Shipping Point and **your customer number** for Ship-to party).

MI00 your customer number

After clicking on the enter icon 4, you will get the following screen.

	Item O	verview Picking	Loadin	g	Transport Status	Ove	rview 🛛 Goods Mo	vem	ent Data				
1	Pick Date∕ Warehous	Fime 05/28/2011 e No.	00	:00	OvrIIPickStat OveralIVVMSt	us atus	A Not yet pi	cked nsfo	rd reqd				
	All Item	s											
	Itm	Material	PInt	SLoc	Deliv. Qty	Un	Picked Qty	Un	Batch	В.,	P١	/vStag. [Date
	<u>10</u>	DXTR1000	MI00		5	EA		EA			A	05/28	/2010
	20	PRTR1000	MI00		2	EA		ΕA			A	05/28	/2010

Click on the picking tab, then enter **FG00** for SLoc (storage location) and the appropriate quantity for the picked quantity (**5** for DXTR1### and **2** for PRTR1###). Click on \square to save the picking information. You should get the following message at the bottom-left corner of the screen.

FG00 5 2

🗹 Outbound Delivery 80000006 has been saved

Click on the exit icon \mathfrak{Q} to return to the SAP Easy Access screen.

12) Post Goods Issue

To post the goods issue (change the possession of the material from GBI to The Bike Zone), follow the menu path:

Logistics ► Sales and Distribution ► Shipping and Transportation ► Outbound Delivery ► Change ► Single Document

This will produce the following screen.

Change Outbound Delivery											
🎾 🕆 🗇 🔂 🤽 🚇	- 🕸 🦆 😤 🏠 🎆 🛛 Post Goods Issue										
Outbound Delivery	80000006										

If the Outbound Delivery document number is not entered automatically, you can search for your delivery document using the tab Outbound Delivery: Not Posted for Goods Issue (**MI00** for Shipping Point and **your customer number** for Ship-to party).

	MI00
	your customer
	number
With the correct delivery document number filled in, click on the Post Goods	
Issue icon. You should get the following message at the bottom-left corner of	
the screen.	
🖌 Outbound Delivery 80000006 has been saved	
Click on the exit icon ${f G}$ to return to the SAP Easy Access screen.	
13) Check Stock Status	
To see the impact that the goods issue for the hikes in the sales order for	
The Bike Zone has had on the inventory position of GBL follow the menu	
nath.	
patri.	
Logistics Materials Management	Menu path
Management 🕨 Environment 🕨 Stock 🕨 Stock Overview	
This will produce the following screen.	

Menu path
Stock Overview: Company Code/Plant/Storage Location/Batch								
•								
Database selections								
Material	DXTR1000							
Plant	MI00 🗇	to	S					
Storage location		to	P					
Batch		to	P					
Database selections Material Plant Storage location Batch	DXTR1000	to	• • • •					

If the Material and Plant fields are not automatically filled in, click on the Material

field, then click on the search icon \square . Use the Sales material by description tab with

UE00 for Sales Organization, **WH** for Distribution Channel and ***###** for Material. Pick the black Deluxe Touring bike. Then, enter **MI00** in the Plant field.

UE00 WH *### MI00

When the Material and the Plant field are correctly filled (compare with the screenshot above), click on (). This will produce the following screen.

Selection				
Material	DXTR1000	🗇 eluxe Touring Bike (black)	1	
Material Type	FERT	Finished Product		
Unit of Measure	EA	Base Unit of Measure	EA	
Stock Overview				
<u>⊗</u> ≙ ∰ <mark>⊒ </mark> ₄	🕄 Detailed Dis	splay		
Client/Company Code/	Plant/Storage Loca	tion/Batch/Special Stock	Unrestricted use	Qual. inspection
🔻 基 Full			95.000	
🔻 🖉 USOO Global	Bike Inc.		95.000	
🔻 😾 MIOO DC	Miami		95.000	
• 🛱 FG00	Finished Goods		95.000	

Note that the available inventory has changed. Select the Miami DC, then click on the Detailed Display icon.

🔄 Stock Overview: Basic List		X			
Stock Pint Pint MI00					
PInt					
Stock Type	Stock				
Unrestricted use	95.000				
Qual. inspection	0.000	Ŧ			
Returns	0.000				
On-Order Stock	0.000				
Consgt ordered	0.000				
Reserved	0.000				
Stck trans.(plnt)	0.000				
Transfer (SLoc)	0.000				
Consgt unrestr.	0.000				
Consgt qual.insp.	0.000				
GR Blocked Stock	0.000				
Cust. inquiries	0.000				
Cust. quotations	0.000				
Sales orders	0.000				
Cust.sched.agmts	0.000				
Cust. contracts	0.000				
Deliv. w/o charge	0.000				
Schd.for delivery	0.000				
Rcpt reservation	0.000				

The inventory is reduced from before by the amount that used to appear as Schd. for

delivery. Click on the enter icon \checkmark to close the window.

Click on the exit icon ${f Q}$ to return to the SAP Easy Access screen.

14) Create Invoice for Customer

With the delivery complete, the customer can be invoiced. To do this, follow the menu path:

Logistics ► Sales and Distribution ► Billing ► Billing Document ► Process Billing Due List

Menu path

This will produce the following screen.

Maintain Billing Due	List			
😔 DisplayBillList 🛛 🕒 DisplayV	ariants			
Billing Data				
Rilling Date from		to 04/24/2010		
Billing Type		to	\$	
SD Document		to		
Selection Default Data	Batch and Undate			
	balan and opdate			
Organizat. Data				
Sales Organization	UW00			
Sales Organization				
Distribution channel		to		
Distribution channel Division		to to	<u>ቀ</u> ቀ	
Distribution channel Division Shipping point		to to to	ው ቀ ቀ	
Distribution channel Division Shipping point		to to to	• • • • • •	
Distribution channel Division Shipping point Customer Data		to to to	 ♦ ♦ ♦ 	
Distribution channel Division Shipping point Customer Data Sold-To Party	25000	to t	• • • •	
Distribution channel Division Shipping point Customer Data Sold-To Party Destination country	25000	to t	• • • • • • • •	

Enter **UE00** for Sales Organization and **your customer number** for Sold-To Party.

UE00 your customer number

If you do not remember your customer number, find it by using the F4 help in the Sold-To Party field and entering your individual number (###) in the Search term field and **Orlando** in the City field. Confirm with **V**. Then, double-click on the one result row.

Orlando

F4

Then, click on the 🕀 Display Bill List icon. This will produce the following screen.

٨	lair	ntain Bil	ling Due L	ist									
	•	2 🕄 🕹	5 🗟 🖀 🕾	7F 🔀 🔠	•••	Individ	dual billing do	cumen	t C	ollective	billing do	ocument C	ollective billing
	S Xæ	BICat SOrg	Billing Date	Sold-to pt 25011	BillT F2	DstC US	Document 80000006	DChl WH	Dv Bl	DocCa J	Address 71072	Sold-to party The Bike Zon	Sold-toLoc e Orlando

Select you line item and click on Individual billing document, which will produce the following screen.

	iocament <u>i</u>	_un	<u>0</u> 010 Eng	enonment a	ystern	Te	h				_
Ø			<u>H</u> eader				•	<u>H</u> eader			
			<u>I</u> tem				•	H <u>e</u> ader partne	rs		
Invoice	e (F2) Ci	reat	Bi <u>l</u> ling it	ems overview	Ctrl+	Shift+	F11	Pricing con <u>d</u> iti	ons header	Ctrl+Shift+F9	
E Dilling	documento	0	Accounti	ng ov <u>e</u> rview				<u>O</u> utput		Shift+F8	
un onnig i	uocuments	9	<u>B</u> ack				F3	Heade <u>r</u> texts			
F2 Invoice		\$00	0000001	Net Value				Foreign Tr <u>a</u> de	Customs		
Payer		250	11	The Bike Zor	ne / 2144	↓N O	range A	Payment cards	3		
Billing Date		057	28/2010					Æ	1		
🕄 Item	Description			Billed Quantit	/	SU	Net value		Material	Cost	
<u>10</u>	Deluxe Tourin	ıq Bik	e (black)		5	<u>EA</u>		14,012.50	DXTR1000	7,000	. 0
20	Professional [•]	Tourir	ng Bike (black	(2	<u>EA</u>		6,080.00	PRTR1000	3,000	. 0

To setup printing of the invoice, follow the pull-down menu path:

Goto ► Header ► Output

which will call up the Output screen.

Enter RD00 (Invoice) for Output and select Print output for Medium, then click on the

🖾 Communication method icon. This will produce the following screen.

RD00 Print output

Invoice (F2) Cr	eate: Output
Bill-to party	25011 The Bike Zone
Output type	RD00
Printing information	
Logical destination	LOCL
Number of messages	Print immediately
Spool request name	Release after output
Suffix 1	
Suffix 2	
SAP cover page	Do Not Print
Recipient	GBI-021
Department	
Cover Page Text	Access Type for Print Parameter and Proposal
Authorization	
Storage Mode	1 Print only

Enter LOCL for Logical destination and select **Print immediately**, then click on the back icon **O**.

LOCL Print immediately

	Invoi	ice (F	2) Create	: Outpu	t					
	🛃 🛈	1 🕄	Communicatio	on method	🛗 Processin	g log	Further data	Repeat outp	ut Ch	ange output
I	nvoice									_
	Outpu	ıt								
	Stat	Output	Description	Medium		Fun	Partner	Lan	C F	
	040	RD00	🗇 oice	1 Print c	output 🔹 🔻	BP	25011	EN		*

Click on the Further data button, which will produce the following screen.

Invoice (F2)	Cre	ate: Outp	out
Bill-to party		25011	The Bike Zone
Output Type		Invoice	Print output
Creation			
<pre>05/28/2010</pre>	٢	03:33:22	
Requested processi	ing		
Dispatch time		4 Send imm	ediately (when saving the application)
100 I	٢	00:00:00	Time to 00:00:00
Actual processing			
100 m	٢	00:00:00	O Not processed 🔹
General data			
Manually changed	1		Created by GBI - 021
Locked			

Select **Send immediately (when saving the application)** for Dispatch time so that the invoice will print immediately, then click on the C icon twice.

Send immediately (when saving the application)

h	nvoid	e (F2) Create: Overvi	ew of Billing It	ems	5			
Ĩ	Billing	documents 💿						
E2 Pay Bill	Invoice /er ing Date	 \$00000001 25011 05/28/2010 	Net Value The Bike Zone / 2144	N O	20,092.50 USD range Ave / US - 32804 Orla &	ind 1		
Ð	ltem	Description	Billed Quantity	SU	Net value	Material	Cost	
	10	Deluxe Touring Bike (black)	5	EA	14,012.50	DXTR1000	7,000.00	
	<u>20</u>	Professional Touring Bike (black	2	<u>EA</u>	6,080.00	PRTR1000	3,000.00	-

Click on the save icon 📙 to return to the Maintain Billing Due List screen.

٨	lain	tain	Billin	ng Due Li	st													
-	•	<u>_</u> (3 🛆 '	7 🖪 🖓 1	7 🗵 🔠	•••	Individ	ual billing doc	ument	С	ollective	billing do	ocument Coll	lective billin	g doc./onlir	ne		
B	S	BICat	SOrg.	Billing Date	Sold-to pt	BillT	DstC	Document	DChl	Dv	DocCa	Address	Sold-to party	Sold-toLoc	Sort term		Counter	ShPt
	1 🗗	L	UE00	05/28/2010	25011	F2	US	80000006	WH	BI	J	71072	The Bike Zone	Orlando				MIOO

Note that the highlight is turned off on the line, and there is a message at the bottom of the screen.

Click on the exit icon \mathbf{G} to return to the SAP Easy Access screen.

15) Display Billing Document and Customer Invoice

The invoice that will be sent to The Bike Zone can be viewed by following the menu path:

Logistics ► Sales and Distribution ► Billing ► Billing Document ► Display

Menu path

This will produce the following screen.

Display Billing Document
🥒 🗋 🗊 🤽 Billing items 🛛 🤽 Accounting 🛛 🖥 🔂
Billing document 90000005
Maya Daavah Ovitavia
Document Number
Company Code
Fiscal Year
Reference
Bearch

If the billing document number is not entered automatically, you can find it from the document flow in your sales order. You may use the transaction **VA03** to view your sales order.

Follow the pull-down menu path:

Billing document ► Issue Output To

This will produce the following pop-up window.

🖻 Output output							
Output							
Message type	Name	Created on	Created at	Process.status	Transm. Medi		
RD00	Invoice	05/28/2010	03:33:22	1	1	*	
						*	

Make sure the invoice line is selected, then click on the Print preview icon $\boxed{@}$. This

will produce the following screen.

<u>LDES Holding A</u> Company	LDEB Helding A.O. Postbach 16.05.29. B 40070 franktur//M Company		Invoice			
The Bike	e Zone	Repeat Print				
2144 N C ORLANDO USA	Jrange Ave FL 32804		Payment Information Doc. No./Date Delivery Note No./Date Order No./Date Reference No./Date Customer Currency Invoice Amount	90000005/ 80000006/ 7/ 05/28/ 000/ 05/2 25011 USD	05/28/2010 05/28/2010 2010 88/2010 20,092.50	
Conditions			Weight - Volume			
Payment	Up to 05/28/2010 without deduction		Gross Weight Net Weight		57,170 G 57,170 G	
Delivery	F O B Miami					
Invoice Detai	ils					
lte m	Material Description	Quantity				
	Pricing Conditions	Price	e F	Price Unit	Value	
0 0 0 0 1 0	DXTR 1000	5 EA				
	Deluxe Touring Bike (black)					
	Gross Value	3,000.00	USD	1 EA	15,000.00	
	Material	50.00	- USD	1 EA	250.00-	
	% Discount from Net	5.00	1- %		737.50-	
	Net Value for Item	2,802.50	USD	1 EA	14,012.50	
0 0 0 0 2 0	PRTR1000	2 EA				
	Professional Touring Bike (black)					
	Gross Value	3,200.00	USD	1 EA	6,400.00	
	% Discount from Net	5.00	I- %		320.00-	
	Net Value for Item	3,040.00	USD	1 EA	6,080.00	
	Invoice Amount Amount Eligible for Cash				20,092.50 20,092.50	

After reviewing the invoice that will be printed and sent to The Bike Zone, click on the back icon , then close the pop-up window by clicking on the cancel icon \divideontimes . To review the accounting implications of this sale, click on the \checkmark Accounting icon. This will produce the following screen.

1	👼 🖌 Display Document: Data Entry View											
ت 🌮	🌮 📽 🕄 🕭 🏭 Display Currency 🛛 🗏 General Ledger View											
Data	Entry	/Vie	w									
Docu	imen	t Nu	ml	ber 90000006	i	Company Code	US00		Fiscal Ye	ear		2010
Docu	imen	t Da	te	05/28/20	110	Posting Date	05/2	3/2010	Period			5
Refe	rence	Э		000		Cross-CC no.						
Curre	ency			USD		Texts exist			Ledger (Foup		
	8	7		B B 7	1 🛛 🖌		🔄 🛛 🖽	<u> </u>				
C*	Itm	PK	s	Account	Descriptio	n			Amount	Curr.	Tx	
US00	1	01		25011	The Bike Z	lone		2	20,092.50	USD		
	2	50		600000	Sales Rev	enue	15,000.00- USD			USD		
	3 40 610000 Sales Dis		count	250.00 USD								
	4	40		610000	Sales Disc	count	737.5		737.50	USD		
	5	50		600000	Sales Rev	enue			6,400.00-	USD		
	6	40		610000	Sales Disc	count			320.00	USD		

Review the accounting postings due to this sales order.

Click on the exit icon Ω until you are on the SAP Easy Access screen.

16) Post Receipt of Customer Payment

After The Bike Zone mails its payment, it needs to be recorded. To do this, follow the menu path:

Accounting ► Financial Accounting ► Accounts Receivable ► Document Entry ► Incoming Payments

Menu path

This will produce the following screen.

Post Incoming Payments: Header Data					
Process open item	S				
Document Date	05/28/2010 Type DZ	Company Code US00			
Posting Date Document Number	0572872010 Period 5	Translatn Date			
Reference		Cross-CC no.			
Doc.Header Text		Trading Part.BA			
Clearing text					
Bank data					
Account	100000	Business Area			
Amount	20,092.50	Amount in LC			
Bank charges		LC bank charges			
Value Date	05/28/2010	Profit Center			
Text		Assignment			
Open item selection		Additional selections			
Account	D	 None 			
Account Type	D Other accounts	OAmount			
Special G/L ind	Standard OIs	O Document Number			
Pmnt advice no.		O Posting Date			
Distribute by age		O Dunning Area			
Automatic search		Others			

Use F4 and Enter to enter the **current date** for the document date. Enter **US00** for Company Code, **USD** for Currency/Rate, **100000** for Account, and **20,092.50** for amount.

Under Open item selection, click on the account field, then the search icon \square , to get

the following search pop-up window.

🔄 Restrict Value Rang	e (2)	
Customers (gene	ral) Customers (by company code) Customers by country/com)	
Search term		
Postal Code		
City	Orlando	
Name		
Customer		
Company Code		
Maximum No. of Hits	500	

current date US00 USD 100000 20,092.50 As The Bike Zone was created with the data set number (###) as a search term, you can use this and the City **Orlando** to find your Bike Zone customer. After entering ### and Orlando on the Customers (by company code) tab, click on the enter icon \checkmark and you will get the following results.

Orlando

🖙 Restrict \	🖙 Restrict Value Range (2) 1 Entry found							
Customers (general) Customers (by company code) Customers by cou								
				∇				
✓								
SearchTer	PostalCode	City	Name 1	Customer	CoCd			
000	32804	ORLANDO	THE BIKE ZONE	25011	USOO			

After double-clicking on Bike Zone to select it, click on the Process open items button. You will get the following screen.

Post Incoming Payments Process open items						
🚨 📝 Dis	stribute diff.	Charge off diff.	🧷 🥖 Editing o	ptions 🖇	🛛 Cash Disc. Due	
Standard	Standard Partial Pmt Res.items Withhldg tax					
Account it	Account items 25011 The Bike Zone					
Document	DDocum	ent P Bus (Day USD G	ross	Cash discnt	Cash
90000006	RV 05/28/	2010 01 BIOO 0) 20	,092.50		

If the Not assigned field does not show a 0.00 balance, double-click on the **20,092.50** amount to assign the payment to the accounts receivable. Then click on the save icon to post the payment. The system will assign a document number automatically.

Document 1400000006 was posted in company code US00

Payment document number

Click on the exit icon $\boldsymbol{\omega}$, which will produce the following pop-up window.

Ē⊄ Ex	Er Exit Editing				
	Data will be lost.				
•	Do you want to exit editing?				
	Yes No				

There is no data to be lost, so click on the **Yes** icon to return to the SAP Easy Access menu.

Yes

17) Review Document Flow

To display the document flow, follow the menu path:

Logistics > Sales and Distribution > Sales > Order > Display

This will produce the following screen.

Menu path

###

Display	/ Sales Or	der: Initial Scre	en	
Sales	🎎 Item overvi	ew 🛛 🤽 Ordering party	Orders	🔂 🐇
	1	7	a	
er		, 	الال	
ch Crit	eria			
hase C)rder No.			
to par	ty			
ery				
g Doci	ument			
Elem	ent			
	Search			

If your sales order is not displayed, you can search for you sales order number using the Sales document according to customer PO number tab. Enter your PO number (###).

To access the document flow tool, follow the pull-down menu path:

Environment Display document flow

The document flow for The Bike Zone will look like the following.

Document Flow					
🕄 🛅 Status overview 🛛 😚 Display document 🛛 Service documents 🔢 🏷 Additional links					
Business partner 0000025000 The Bike Zone	VAIWALVAIWA				
Document	On Status				
🔻 📄 Inquiry 001000000	04/24/2010 Completed				
🔻 📄 Quotation 002000000	04/24/2010 Completed				
🔻 📄 🔿 Standard Order 000000003	04/24/2010 Completed				
🔻 📄 Outbound Delivery 0080000002	04/24/2010 Completed				
 Picking reques 	04/24/2010 Completed				
• 📄 GD goods issu Initial Doc. 1004	04/24/2010 complete				
🔻 📄 Invoice 009000	04/24/2010 Completed				
 Accounting document 009000003 	04/24/2010 Cleared				

Review the documents for The Bike Zone's order. You may select any document

and click on Corplay document to look at it in detail.

Click on the exit icon \mathbf{G} to return to the SAP Easy Access screen.

5. 实验方式

每位同学独立上机操作实验,实验指导教师现场指导。

实验 2: 物料管理

1. 实验目的

了解并执行一个采购流程周期。

2. 实验环境

- 1) 接入 Internet 的实验主机;
- 2) Windows 7 操作系;
- 3) SAP GUI.
- 3. 实验内容

为了操作一个完整的采购流程,学生需要在 GBI 公司内担任不同的角色,例 如 采购代理人,仓库工人,会计文员。总体而言,学生主要对物料管理(MM) 和财务会计(FI)部门的具体工作进行操作。在开始采购流程之前,学生需要在 林肯创建一个新的供应商(中西部供应公司)。然后,为系统中的交易商品(链 锁)创建新的主记录。在检查库存(空)后,通过创建采购申请开始采购流程, 生成报价请求并输入来自不同供应商的报价,包括新供应商。在评估并接受中西 部供应的报价后,学生创建一个参考询价的采购订单,然后过帐收货并验证库存 的实际收货,创建两个部分发票之后就可以付款到供应商并查看总帐科目。

- 4. 实验步骤
 - 1) Create New Vendor

To create a new vendor, follow the menu path:

Logistics ► Materials Management ► Purchasing ► Master Data ► Vendor ► Central ► Create Menu path

This will produce the following screen.

Create Vendor: Initial Screen				
Vendor				
Company Code	US00			
PurchasingOrganization	US00			
Account group	KRED			
Reference				
Vendor				
Company code				
Dunch a sin o Onneninstian				

Leave the vendor field blank. The system will generate a new number. Enter **US00** for Company Code, **US00** for Purchasing organization, and **KRED** as Account Group. Then, click on

US00 US00 KRED

In the Create Vendor: Address screen, select **Company** as Title, enter **Mid-West Supply** as Name, and your number (###) for Search term. As Street enter 335 W Industrial Lake Dr, as Postal code enter **68516**, and **Lincoln** for City. Further specify **US** (Country) and **NE** (Region). As communication language choose **English**. Compare your entries with the screen shown below.

Company Mid-West Supply ### 335 W Industrial Lake Dr 68528 Lincoln US NE English

Create Vendor:	Address
🔂 🗟 📘	
Vendor INTERNA	L
Name	
Title	Company
Name	Mid-West Supply
Search Terms	
Search term 1/2	000
Street Address	
Street/House number	335 W Industrial Lake Dr
Postal Code/City	68528 Lincoln
Country	US USA Region NE Nebraska
Time zone	CST
PO Box Address	
PO Box	
Postal code	
Company postal code	
Communication	
Language	EN English Other communication

Then, click on or until you see the Create Vendor: Control screen. In the Create Vendor: Control screen, in the Tax information field group enter **12**-

3456### as Tax Number 2 – remember to replace ### with your number. Confirm your	
entry and skip the next screen (Create Vendor: Payment transactions) by clicking $@$ or \textcircled{B} twice.	
	12-3456###
In the Create Vendor: Accounting information Accounting screen, enter Recon.	
Account 300000 . Then click on \mathbf{W} or \mathbf{W} .	000000
	300000
In the Create Vendor: Payment transactions Accounting screen, enter Payt Terms 0001 , and select Chk double inv. Then click on and select Chk double inv. The and select Chk double i	
	0001
	Chk doublo inv
In the Create Vendor: Correspondence Accounting screen, enter your name as Clerk	
at vendor. Then click on 🥨 or 🖻.	your name
In the Create Vendor: Purchasing data screen, enter USD as Order currency and 0001	
for Terms of paymnt. Then click on 🥝 or 🗟.	USD
	0001
There is no data to be entered in the Create Vendor: Partner functions screen.	
Click on 📙 to save your vendor master record. The system will automatically assign	
a unique number for your vendor.	Vendor master number
Click on the exit icon $ {igoplus} $ to return to the SAP Easy Access screen.	

Menu path

2) Create Material Master for Trading Goods

To create a trading good material master record, follow the menu path:

Logistics ► Materials Management ► Material Master ► Material ► Create (Special) ► Trading Goods

This will produce the following screen.

I⊄ Material Edit Goto Defaults System Help
Create Trading Goods (Initial Screen)
Select view(s) Organizational levels Data
Material de Contraction de Contracti
Industry sector
Change Number
Copy from
Material

In the Material field, type in CHLO1### (replace ### with CHLO1### your number) and select Retail as an Industry sector. Then, Retail click on 🚳 or press Enter.

On the next screen, select the following views by clicking on the square in front of the respective rows:

- Basic Data 1 - M	IRP 1
- Sales: Sales Org. Data 1	- MRP 2
- Sales: Sales Org. Data 2	- MRP 3
- Sales: General/Plant Data	- General Plant Data/Storage 1
- Purchasing - Ad	ccounting 1
Also, select Create views selecte	d . Then, click on 🖋.

Basic Data 1 Sales: Sales Org. Data 1 Sales: Sales Org. Data 2 Sales: General/Plant Data Purchasing MRP 1 MRP 2 MRP 3 General Plant Data / St. 1 Accounting 1

Create views selected

C	r Select View(s)		X
	View		
	Basic Data 1	-	
	Basic Data 2	-	
	Sales: Sales Org. Data 1		
	Sales: Sales Org. Data 2		
	Sales: General/Plant Data		
	Foreign Trade: Export Data		
	Sales Text		
	Purchasing		
	Foreign Trade: Import Data		
	Purchase Order Text		
	MRP 1		
	MRP 2		
	MRP 3		
	MRP 4		
	Forecasting		
	General Plant Data / Storage 1	-	
	General Plant Data / Storage 2	Ψ.	
	View selection only on request Create views selected		
v	🖌 Org. Levels 🛛 Data 📳 🖳 🔲 Default Setti	ing	×

On the Organizational Levels screen, enter plant MIOO (Miami), Stor. Location TG00 (Trading Goods), Sales Org. UE00 (US East), and Distr. Channel WH (Wholesale). Compare with the screen shown below.

MI00 TG00

rganizational levels	
Yant MIOO	
Stor. Location T600	
Sales Org. UE00	
Distr. Channel 🛛 💔 🗇	
Profiles	
MRP profile	

On the *Basic Data 1* tab, enter **Chain Lock** as a description (text field next to the material number). As Base Unit of Measure, use the F4 help to find and select **each** (**EA**). In the Material Group field, select **UTIL** (Utilities). As division, choose **AS** (Accessories).

In the Gross Weight field and in the Net Weight field, enter **65** and select **Ounce** (**OZ**) as Weight unit. Then press Enter or click on **S**.

UTIL
AS
65
65
OZ

Basic Data 1

Chain Lock

ΕA

UE00 WH

On the *Sales: sales org. 1 tab*, in the Delivering Plant field use the F4 help to find and select the Miami plant (**MI00**). In the Tax data field group, in the left Tax classification column (the one that is editable = white background colour) select Exempt (**0**) for all three tax categories.

Click on Conditions . On the following screen, enter Scale quantity **1** and Amount **69.00**. Compare your entries with the screen below, then click on O to return to the Sales: sales org. 1 view. There, press Enter or click on O.

Validity					Control				
Valid From		04/28/201	0		ScaleBasis	C Qua	antity sc	ale	
Valid to		12/31/999	19		Check	A Des	scendin	g	
Scales									
Scale Type	Scale quantit	ly .	U	Amou	nt	Unit	per	UoM	
From		1	ΕA		69.00	USD	1	EA	

<u>Sales: sales org. 1</u> MI00 0 0 0 1 69.00

On the Sales: sales org. 2 tab, select Matl statistics grp 1. Then press		
Enter.	<u>Sales: sa</u>	<u>les org. 2</u>
		1
On the Sales: Genereal/Plant tab, select Availability check 02		
(Individual requirements) and use the F4 help to choose Tansp. Grp	<u>Sales: Gen</u>	eral/Plant
0001 (On pallets) and LoadingGrp 0002 (Handcart).		02
		0001
On the Durch of the back of Durch of the One of NOO (No the Association)		0002
On the <i>Purchasing</i> tab, enter Purchasing Group NUU (North America).		
	<u>Pl</u>	<u>urcnasing</u>
On the MARD 1 tab. collect MARD type DD (MARD) MARD Constroller 000		NUU
On the <i>MRP 1</i> tab, select MRP type PD (MRP), MRP controller 000 ,		
Lot size EX (Lot-for-lot order quantity) and Minimum Lot Size 10 .	חח	<u>MRP1</u>
		10
On the MAR 2 tab enter Denned Delivitime ((deve) and colort	EA	10
Sched Margin key 001		
Schedwargin key 001 .		<u>MRP 2</u>
		001
On the MPR 2 table check if the Availability check is set correctly to 02		001
Then, prove Enter, Chin the Diget data (stor, 1 view by slighing on 🕅		MPD 3
Then, press enter. Skip the Plant data / stor. 1 view by clicking on \checkmark .		02
On the Accounting 1 tab. select Valuation Class 3100 (Trading Goods)		02
enter Moving price 33 50	Acc	ountina 1
	<u>/100</u>	3100
		33.50
Then, click on 📕 to save your material		
Click on the exit icon Θ to return to the SAP Fasy Access screen		
3) Extend Material Master for Trading Goods		
To create new views for an existing trading good, follow the menu path:		
Logistics 🍉 Materials Management 🕨 Material Master 🕨	N	lenu path
Material ► Create (Special) ► Trading Goods		
Enter your material number CHLO1### (again, replace ### with your		
three-digit number) in the Material field. In the Copy from field group.	Cł	HLO1###
enter CHLO1### in the Material field again. Then, press Enter.	CI	HLO1###
In the Select View(s) window, highlight all three Sales views, make sure		
	3 Sa	les views
the indicator Create views selected is checked, and click on 🤎 .	Create views	selected

In the Organizational Levels window, on the left side (Organizational levels) enter Plant SD00, Sales Org. UW00 and SD00 Distr. Channel WH. On the right side (Copy from), enter Plant MI00 MI00, Sales Org. UE00 and Distr. Channel WH. Before pressing UW00 Enter, compare your entries with the screen shown below. **UE00** WΗ WH 🔄 Organizational Levels Organizational levels Copy from MIOO Plant SD00 UW00 UE00 Sales Org. Distr. Channel WH WH 🗇 The system will take you to the Sales: sales org. 1 view. Note that sales data has been copied from views created for the Wholesale distribution channel. The system displays a message saying that the material already exists and will be extended. The material already exists and will be extended Conditions Change Delivering Plant MI00 to **SD00**. Then, click on Enter Scale quantity **1** and amount **65.00**. Click on 🙄 and save with 📙. Sales: sales org. 1 **SD00** 65.00 1 Finally, click on the exit icon \mathbf{G} to return to the SAP Easy Access screen. 4) Display Stock/Requirements List To display the stock/requirements list, follow the menu path: Menu path Logistics
Materials Management
Inventory Management
Environment

Stock Stock/Requirements List This will produce the following screen. Stock/Requirements List: Initial Screen Individual access Collective access CHL01000 Material Chain Lock MI00 🗇 Plant. With filter

In the Material field, enter the number of your new chain lock trading good **CHLO1###** (replace ### with your number) and Plant **MIOO**. Then click on **S**. Your stock/requirements list should look similar to the screen below.

Show Overview Tree 🔄 😤 🛛 📅 🚳 📅	
Material CHL01000 Chain Lock Plant MI00 MRP type PD Material Type HAWA Unit EA Image: Chain Lock	
Image: Stock MRP e MRP element data Rescheduli E Receipt/Reqmt Available Qty Image: Stock Stock 0 0 0 0	

CHLO1###

MI00

Click on the exit icon ${igoplus}$ to return to the SAP Easy Access screen.

5) Create Purchase Requisition

To create a purchase requisition, follow the menu path:

Logistics ► Materials Management ► Purchasing ► Purchase Menu path Requisition ► Create

This will produce the following screen.

Create Purchase Requisition
Document Overview On 🔄 🗋 📽 🚹 🔞 Personal Setting
Image: NB Purchase Requisition Source Determination Header Item Overview
► Item 1 New Item

Select 🛍 Header to expand the header.

In the text field, type the Header note: "Global Bike Inc. is formally requesting quotations for the following material. Quotes will be accepted until [1st day of the next month]."

Create Purchase Requisition
Document Overview On 🔄 🗅 📫 🔂 🚱 Personal Setting
Image: NB Purchase Requisition Source Determination Texts Texts
A Biobal Bike Inc. is formally requesting quotations for the following material. Quotes will be accepted until May 1, 2010.] A I Continuous-tex
Them Overview

Select ¹ Item Overview to expand the item overview.

Enter Material **CHLO1###** (replace ### with your number) and Quantity **200**. As Delivery Date select or enter the day **three months from today**. Then, enter Plant CHLO1###

, , , , , , , , , , , , , , , , , , , ,	
MI00, Stor. loc. TG00, and PGr. N00.	200
After clicking on 🧐 compare your screen with the one below.	3 months
	from today
	MI00
	TG00
	N00

E CI. AVH&V. E. %. C) @ _ B _ = _ []	🔁 🚰 💭 I 🔂 Default V	alues	
🕞 St Item A I Material Short Text	Quantity Unit C Delivery Date	Matl Group Plant	Stor. Loc. PGr	
10 CHLO1000 Chain Lock	200 EA D 07/29/2010	Utilities DC Miami	Trading Goc N00	
		DC Miami		
Then, click on $facksquare$ to save your pure	chase requisition.	. The system v	vill create a	
unique document number.				Purchase
Purci	hase requisition n	umber 001000	0000 created	requisition
				requisition
				document
				number
Click on the exit icon ${igoplus}$ to return to t	the SAP Easy Acce	ess screen		

6) Display Stock/Requirements List

To display the stock/requirements list again, follow the menu path:

Logistics ► Materials Management ► Inventory Management ► Environment ► Stock ► Stock/Requirements List

Menu path

If not already defaulted in, enter your Material **CHLO1###** and Plant **MI00**. Then click

on 🕙. Your stock/requirements list should now look similar to the screen below. CHLO1##

MI00

Stock/Requirements List as of 14:29 hrs										
Show Overview Tre	ee 🚨 🕻	🛐 🏹 🖗 🐨								
Material Plant	<u>CHL01000</u> MI00 1	MRP type	Chair <u>PD</u>	n Lock Material Type		HAWA Unit	E	EA 🗾 😰		
🔀 A Date	MRP e MRF	° element data		Rescheduli	E	Receipt/Reqmt		Available Qty		Stor
P 304/29/2010	Stock								0	
07/29/2010	PurRqs 0010	0000000/00010	*		20		200		200	TG00

Click on the exit icon $\boldsymbol{\omega}$ to return to the SAP Easy Access screen.

7) Create Request for Quotation

To create an RFQ, follow the menu path:

Logistics ► Materials Management ► Purchasing ► RFQ/Quotation ► Request for Quotation ► Create Menu path

AN

This will produce the following screen.

0	Mal 0	
Create RFQ : In	itiai Screen	
🙎 🚇 🗈 🗋 Referen	ce to PReq 🛛 🗋 Reference to Outline Agreement	
REQ Type	AN	
Language Key	EN	
RFQ Date	04/29/2010	
Quotation Deadline	05/01/2010	
RFQ		
Organizational Data		
Purch. Organization	US00	
Purchasing Group	NOO	
Default Data for Items		
Item Category		
Delivery Date	T	
Plant	M100	
Storage Location		
Material Group		
Req. Tracking Number		

Enter RFQ Type **AN**, today's date as RFQ Date, and the first day of the next month as Quotation Deadline.

	today's date
	1 st day of next
	month
In the Organizational Data field group, enter Purch. Organization US00 and Purchasing Group N00 .	US00
	N00
In the Default Data for Items, enter Plant MI00. Then, select	
Reference to PReq which will produce the following screen.	MI00

56

🔄 Selection of Pu	rchase Requisitions 🛛 🗙
Purchase Req.	10000000 🗗
Requisn Item	
Purch. Group	N00
Document Type	
Material	
MPN Material	
Plant	
Item Category	
Acct Assgt Cat.	
Tracking Number	
Supplying Plant	
Assigned	
🖌 Stock material	
🖌 Open only	
	✓ ▲ ×

If your Purchase Requisition number is not already entered, use the F4 help to find the number of your purchase requisition. Then, click on ♥. In the Create RFQ: Selection List: Purchase Requisitions screen, enter SLoc (Storage Location) **TG00**. Click on ■ to select all items. Then, click on ■ to adopt all item information into the RFQ.

In the Create RFQ : Item 00010 screen, click on 4 to display the RFQ header data. Enter **RFQ1###** as *Coll. No.* Remember to replace ### with your three-digit number. After comparing your entry with the screen below, click on 2 to display the line items.

Create RFQ : H	leader Data			
🚨 📝 🖹 🎲 🎤 🎚	3			
RFQ Type AN Vendor	Compa	ny Code US00	Purchasing Gro Purch. Organiza	ation US00
Administrative Fields				
RFQ Date 04	/29/2010 Item Inte	erval 10	Coll. No.	RFQ1000
Language EN	Subiterr	n Interv. 1	QuotDdIn	05/01/2010
Validity Start	Validity	End	Apply By	
	Warrant	ly 🗌	Bindg Per	

In the Create RFQ : Item Overview screen, review the line items and ensure they are correct. Then, select \exists to display the vendor address.

In the Create RFQ: Vendor Address screen, use the **F4** help to find your vendor Mid-West Supply. In order to do so, use the fields Search term (### = your number) and City (**Lincoln**) and double-click on the result row to insert the TG00

RFQ1 ###

F4

number into the Vendor field. Then, click on 🥸 which will populate your $-$	###
vendor's data into corresponding fields.	Lincoln
Click on 📕 to save your RFQ. A warning message will appear. Press Yes to	
save anyway.	Yes
The SAP system will create a unique document number.	
REO created under the number 600000000	RFQ document
	number
Stay in the same screen and repeat the last step twice to create the same RFQ	
for our vendors Dallas Bike Basics and Spy Gear.	Dallas Bike
	Basics
	Spy Gear
In order to find your vendor, in the Vendor field use the F4 help again. This	
time, enter US for country and your number (###) in the Search term field.	

Then, press Enter to display your set of US vendors (see list below).

🖙 Vendor Account Number (1) 13 Entries found										
Vendors (General) Vendors by Country/Company Code Vendors by Co										
		∇								
🖌 🖂 🕅 🖁										
Country: US										
City 📩	SearchTer	Name 1	Vendor	CoCd						
ATLANTA	000	OLYMPIC PROTECTIVE GEAR	101000	USOO						
CARLSBAD	000	REDWOOD KITS	112000	USOO						
CINCINNATI	000	BOOMTOWN TIRE & WHEEL	102000	US00						
EDISON	000	LIGHTBULB ACCESSORY KITS	104000	USOO						
GRAND RAPIDS	000	RAPIDS NUTS N BOLTS	108000	USOO						
HOUSTON	000	SPACE BIKE COMPOSITES	105000	USOO						
IRVING	000	DALLAS BIKE BASICS	103000	US00						
LACROSSE	000	NIGHT RIDER ALUMINUM PROD	106000	USOO						
LINCOLN	000	MID-WEST SUPPLY	135000	USOO						
MCLEAN	000	SPY GEAR	107000	US00						
MIAMI	000	FUN N THE SUN SEATS N BAR	110000	USOO						
PORTLAND	000	GREEN BLAZERS SEATS	109000	US00						
SCOTTSDALE	000	SUNNY SIDE UP TIRE	111000	US00						

First, double-click on Dallas Bike Basics to select it. Back on the Create RFQ : Vendor Address screen, press Enter and save the second RFQ. Again, accept the system warning message with **Yes**.

Repeat the same procedure to create a third RFQ (for Spy Gear) and save it. Click on the exit icon 3 to return to the SAP Easy Access screen.

Yes

US

###

8) Maintain Quotations from Vendors

To maintain quotations from vendors, follow the menu path:

Logistics 🕨 Materials Management 🕨 Purchasing 🕨	Menu path
RFQ/Quotation Quotation Maintain	

Use the **F4** help in the RFQ field to find and enter the RFQ number from your Mid-West Supply vendor. On the Purchasing Documents per Vendor tab, you need to find and select your vendor Mid-West Supply first. Position your cursor in the Vendor field and press **F4** again. Start the search after typing in Country **US** and your three-digit number (**###**) as Search term. **###**

Double-click on your new vendor to select it. Now that your vendor number is put in the Vendor field, press Enter or click on \checkmark to find the first RFQ number you have created in the last task.

Double-click on your RFQ to populate the number into the RFQ field on the Maintain Quotation : Initial Screen. Then click on & or press Enter.

Maintain Quotation : Initial Screen								
_ 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4								
RFQ	600000000							

In the Maintain Quotation : Item Overview screen, enter a net price of **32.00** USD. Click on 🔳 to select all items.

32.00

_													
Ľ	👦 Maintain Quotation : Item Overview												
6	1 🖪	E D 11 4 2 4) 🗅 🖻 🔍 👪 🖉 📮) 🛅 🗟									
	Q ndor	600000000 135000	RFQ Type AN Mid-West Supply]	RFQ Date QuotDdIn		04/29/2010 05/01/2010						
QI	Jotation	Items											
	Item	Material	Short Text	RFQ Quanti	ty	0	C Deliv. Date	Net Price	Per	0	Mat. Grp	PInt	SLoc
	10	CHL01000	Chain Lock	200		ΕA	D 07/29/2010	32	1	EA	UTIL	MIGG	T600

Then, click on to display conditions. Here, other discounts and surcharges included in the quotation could be specified. In our case, just set the Valid to data to three months from today.

3 months from today

Create Gross I	Price	e Co	ond	itio	n (P	B00):(Con	diti	on	Supplements
la 🕄 🛛 📞 🍃	12	⊞	21	i	<u>"</u> 2 2	7 3	í I Z	2][ĉ	6	B
Variable key											
Purchasing Doc.		Ite	m D	escrip	otion						
600000000			10 CI	nain L	.ock						
	œ٥	alenc	lar							×	
Validity	04/20	2/204	0								
Valid From	CN	WN 17	U MO 26	Di 27	Mi 28	Do 29	Fr 30	Sa 1	<mark>So</mark> 2		12/31/9999
Condition supplement	10/5	18 19 20	3 10 17	4 11 18	5 12 19	6 13 20	7 14 21	8 15 22	9 16 23		Reales Tarts
PB00 Gross Price	20	21 22	24 31	25 1	26 2	27	28	29 5	30 6		
	2010/6	23 24	7	8 15	9 16	10 17	11 18	12 19	13 20		· · · · ·
	5	26 27	21 28 5	29 6	23 30 7	24 1 8	25 2 9	20 3 10	4 11		
	2010	28 29 30	12 19 26	13 20 27	14 21 28	15 22 29	16 23 30	17 24 31	18 25 1		
	8/0	31 32	2 9	3 10	4 11		6 Irsday	7 4 4	8 15 29, 20	10	
						-		/		 ?[X]	

Click on C to go back to the line item overview. Then, click on I to save your maintained quotation for your Mid-West Supply vendor. The system acknowledges the changes to your first quotation with a success message.

🗹 Quotation for RFQ 600000000 maintained

Repeat this process for the other two RFQs you created. Make sure you use the above-described search criteria to find the vendors for your number (###). Enter the following prices:

Dallas Bike Basics	36.50 USD
Spy Gear	35.00 USD

Make sure you save both RFQs and receive the system success messages.

Dallas Bike Basics 36.50 Spy Gear 35.00

Click on the exit icon 🙆 to return to the SAP Easy Access screen.

9) Evaluate quotations on price

To flag/reject quotations, follow the menu path:

Logistics ► Materials Management ► Purchasing ► RFQ/Quotation ► Quotation ► Price Comparison

This will produce the following screen again.

Price Comparison List				
🕀 🔁				
Purchasing Organization				
Quotation		to	S	
Collective RFQ	RFQ1000	to	S	
Vendor		to	S	
Material		to	S	
Minimum Value Quotation Minimum Value Quotation Percentage Basis Max. No. Quotations per Page	12			
Price Calculations				
Include Discounts				
Include Delivery Costs				
Determine Effective Price				

Enter Purchasing Organization **US00**, and Collective RFQ **RFQ1###**. Select **Mean Value Quotation** and **Determine Effective Price**. Then, select to execute the price comparison. This shows the following screen.

US00 RFQ1### Mean Value Quotation Determine Effective Price

Price Comparison List in Currency USD										
ᡰ 🔸 🕨 🖉 Quotation 🚳 Material 🚱 Vendor Additional Info 🛐										
Material	Material Quot.: 600		6000000002	6000000001						
Sh. Text	Sh. Text Bidder:		107000	103000	MEAN					
Qty. in Base Unit	Coll. No. :	RFQ1000	RFQ1000	RFQ10PC						
CHL01000	Val.:	6,400.00	7,000.00	7,300.00	6,900.00					
Chain Lock	Price:	32.00	35.00	36.50	34.50					
200 EA	Rank :	1 93 %	101 %	3 106 %						
Total Quot.	Val.:	6,400.00	7,000.00	7,300.00	6,900.00					
	Rank :	1 93 %	2 101 %	3 106 %						

Determine the Vendor that you are going to do business with (the lowest priced quotation) by rejecting the other two. To do so, double-click on the quotation number with 36.50 USD. This will produce the following screen.

Menu path

P	Maintain Quotation : Item Overview												
RFQ 6000000001 RFQ Type AN RFQ Date 04/29/2010 Vendor 103000 Dallas Bike Basics QuotDdln 05/01/2010													
ltem 10	Material CHL01000	Short Text Chain Lock	RFQ Quantity 200	0 EA	C D	Deliv. Date 07/29/2010	Net Price 36.50	Per 1	0 EA	Mat. Grp UTIL	Pint MI00	SLoc TGOO	D
												-	

Select **R** (Rejection Ind.) to indicate rejection of this quotation. Click on \blacksquare . Acknowledge the warning message prompted by the system with Yes and save anyway.

Repeat the process for the second quotation to be rejected (35.00 USD).

Click on the exit icon ${igoplus}$ to return to the SAP Easy Access screen.

R

10) Create Purchase Order Referencing an RFQ

To create a purchase order, follow the menu path:

Logistics ► Materials Management ► Purchasing ► Purchase Order ► Create ► Vendor/Supplying Plant Known

If there is no navigation screen on the left side, click on Document Overview On. As

selection variant choose **Requests for quotations** as shown below.

Requests for quotations

Menu path

🕪 - 🖸 🛐 🛗 💷 -
<u>P</u> urchase orders
<u>R</u> equests for quotations
<u>C</u> ontracts
<u>S</u> cheduling agreements
General purchasing documents
<u>P</u> urchase Requisitions
<u>M</u> y purchase orders
<u>P</u> urchase orders on hold
<u>My</u> purchase requisitions

In the following screen, in the Material Number field use the F4 help to find your chain lock trading good. On the Material by Material Type tab, select Material Type **Trading Goods** (HAWA) and enter *### (e.g. *012 if your number is 012) in the Material field. Then, press Enter or click on \checkmark .

🔄 Material Number (1)		
Material by task lis	t 💦 Sales material by description 📝 Material by Material Type 📗	••
Material Type	HAWA	
Material description		
Language Key	EN	
Material	*000	
Maximum No. of Hits	500	

Trading Goods

Double-click on your chain lock (**CHLO1###**) to select it. When your material number is populated in the Material Number field, make sure that all other search criteria fields are blank and click on ⁽¹⁾. This will produce a screen with your three RFQs.

CHLO1##

#

🕹 ا 🚺 ا 🚯 🕹 🕹
Purch.Doc.
· 🚯 600000000
· 🚯 600000001
· 🚯 600000002

Click on 🛱 (Change Breakdown). In the following screen, select Vendor name in

the right table (Column Set) and click on \blacktriangleleft to add it to the Sort criteria. Then, select Vendor vendor name in the left table (Sort criteria) and click on 📥 to display the vendor name name first, then the document number.

After you have confirmed your changes by clicking on 💜, you will see the names of your vendors in alphabetic order.

Click on the right part of the Select Layout icon <a>Image and choose Change layout... Select Material in the right table (Column Set) and click on \blacktriangleleft to add it to the displayed columns.

After you have confirmed your changes by clicking on \checkmark and expanding all three folders, you will see the following screen.

🖦 🗅 🛐 🛗 💷 🖬 👪	
VendName/Purch.Doc.	Material
🔻 📄 Dallas Bike Basics	
· 숷 600000001	CHL01000
🔻 📄 Mid-West Supply	
· 숷 600000000	CHL01000
🔻 📄 Spy Gear	
· 숷 600000002	CHL01000

Single-click on the requisition/quotation that you want to reference (Mid-West Supply) and select 🛄 to adopt the information.

Note: If you try and adopt one of the other quotations you will get a message that the quotation item is already rejected.

Verify that the system copied the Material number CHLO1###, Quantity 200, three months from today as Deliv. Date, and the Net Price of 32.00 USD.

> 3 months from today 32.00 USD

🗟 S... Itm 🛛 A 🛛 Material O... C Deliv. Date Net Price Short Text PO Quantity Curr... Per O... Matl Group 32.00 USD CHL01000 200 EA D 07/29/2010 10 Chain Lock EA Utilities

US00 GBLUS

N00 North America

US00 Global Bike Inc.

Purch. Org. Purch Group

Company Code

If the header data is not yet displayed, open the section by clicking on imes 1 Header. On the Conditions tab, record the total value of the purchase order (6,400 USD).

If the line item data is not yet displayed, open the section by clicking on 1 Item Detail. On the Delivery Schedule tab, select the first line. Then, click on 🛄 below the table to perform a schedule line split.

🔚 ltem	1[10]CH	HLO1000 , Chain Lo	ock		▼ ▲ ▼						
	Material Data Qua	ntities/Weights 🗡	Delive	ry Schedule	Delivery Invoid	e Conditi	ons	Tex	ts Delivery Ad	idress C	confirmations
	S C Delivery Date Sch	ned. Qty	Time	Stat. Del. Dte	GR Qty	Purchase	Req	N	Open Quantity	Sch P	
	D 07/29/2010	200		07/29/2010		10000000	10			2001	
										0	
										0	
										0	
	4	<u>۲۲۲</u>									
]									

Material

Mid-West Supply

CHLO1##

200

Acknowledge the red err	or message by changing	g the Sched Qty.	of the first line from	
200 to 100 . Then, enter	the following data for t	he second line:		
Delivery Date	one week after the firs	t delivery		200 → 100
Sched Qty.	100			
Purchase Req.	same as previous line			
Requisn Item	same as previous line			1 week
Then, click on 🥝. Verify	vour item details with	the screenshot	below.	after 1st
-,				delivery
				100
				same
				Same
				same
Material Data Quantities/Weights	n Lock	e Conditions Texts	Delivery Address Confirmations	l L
SC Delivery Date Sched. Qty	Time Stat. Del. Dte GR Qty 007/29/2010	Purchase Req N Ope	n Quantity Sch P	
0 08/05/2010 1	00 08/05/2010	10000000 10	100 2	
			0	
			0	
BBB î î y				
On the Material Data tak	a coloct infelindate			-
On the Material Data tag	o, select infoopdate .			
				InfoUpdate
Then, find the following	menu item in the syste	m menu:		
Purchase Order 🕨 Sav	e.			

The system will assign a unique purchase order document number.

Standard PO created under the number 4500000001	
	Purchase
	order
	document
	number
Click on the exit icon ${f G}$ to return to the SAP Easy Access screen.	

65

11) Display Purchase Order

To display a purchase order, follow the menu path:

Logistics ► Materials Management ► Purchasing ► Purchase Order ► Display

Menu path

This will produce the following screen.

👦 Standard PO 4500000001 Created by Stefan Weidner									
Document Overview On 🛛 🗋 🌮 🖻 🛛 🖓 Print Preview 🛛 Messages 🚹 🔞 Personal Setting									
WB Standard PO 45000000001 Vendor 135000 Mid-West Supply Doc. date 84/29/2010 Pil Header									
ESSItm A I Material	Short Text Chain Lock	PO Quantity 200	0 EA	C Deliv. Date D 07/29/2010	Net Price 32.00	Curr USD	Per 1	0 EA	

If the purchase order number from the previous step is not already displayed, click on \mathbf{C} (Other Purchase Order).

In the following screen, enter (or find) your purchase order number in the Pur. order

field, select Pur. order and click on Other Document

Then, click on **Print Preview** to look at the electronic printout.

Click on the exit icon \mathfrak{G} twice to return to the SAP Easy Access screen.

12) Create Goods Recei pt for Purchase Order

To create a goods receipt for a purchase order, follow the menu path:

Logistics Materials Management Inventory Management ► Goods Movement ► Goods Receipt ► For Purchase Order ► GR for Purchase Order (MIGO)

Make sure that Goods Receipt and Purchase Order are selected in the dropdown lists. Enter (or find) your PO number in the field next to them. Then, press Enter which will populate your PO data into the fields.

Goods Receipt Purchase Order your PO number

100

OK

Menu path

01 Good	Is Receipt 🔻 R01 Purchase Or	rder 👻 🚺 🗖		l) (1	GR goods r	eceipt []	.01]	
	General Vendor									
Docu Posti	ment Date 10.04.2015 ng Date 10.04.2015 1 Individual Slip •	Delivery Note Bill of Lading		Ven Hea	lor <u>Mid</u> lerText	I-West-Supply 022				
Line	Mat. Short Text	ОК	Qty in UnE	E 9	Loc	Batch	Valuation	М	D Stock Type	PInt
1	Chain Lock		100	EA T	ading Goods			101	+ Unrestrict	💷 🔻 DC Miami
2	Chain Lock		100	EA T	ading Goods			101	+ Unrestrict	a 🔻 DC Miami

You should see two lines with 100 ea each of Chain lock. Here we only work on the first line. In the case that you have only one line with 200 ea of the Chain look please change the Quantity from 200 to **100**. If the line item in the item overview section is read only, click on \mathbb{H} at the bottom of the screen to close the item detail section. Then, check OK. SLoc (Storage location) Trading Goods should already be entered. Trading Goods

Finally, click on Post or 📙 to po	ost your goods receipt. The system will	Goods receipt						
document.	Material document 5000000001 posted	document number						
Click on the exit icon 🙆 to return to the SAP Easy Access screen.								

13) Verify Physical Receipt of Goods

To verify the receipt of goods, follow the menu path:

Logistics ► Materials Management ► Inventory Management ► Environment ► Stock ► Stock Overview

Enter Material **CHLO1###** (replace ### with your number), Plant **MI00**, and Display version **1**. Then, click on .

CHLO1## MI00

1

Menu path

궁 🚖 🛗 📮 🕵 Detailed Display				
Client/Company Code/Plant/Storage Location/Batch/Special Stock	Unrestricted use	Qual. inspection	Reserved	Rcpt reservation
🔻 遇 Full	100.000			
🔻 🛐 US00 Global Bike Inc.	100.000			
🔻 🌆 MIOO DC Miami	100.000			
• 🎛 TG00 Trading Goods	100.000			

In the Unrestricted use column, the current inventory is displayed. Select

the line with your plant's stock and click on Stock and click on

🖻 Stock Overview: Basic List		X
Stock Pint Pint Mi00		
PInt		
Stock Type	Stock	
Unrestricted use	100.000	
Qual. inspection	0.000	Ŧ
Returns	0.000	
On-Order Stock	100.000	
Consat ordered	0.000	

Note that there are 100 pieces on stock for unrestricted use and another 100 in onorder stock (still to be delivered to the Miami plant). Click on \checkmark . Click on the exit icon 3 to return to the SAP Easy Access screen.

14) Create Invoice Receipt from Vendor

To create an invoice receipt, follow the menu path:

Logistics Materials Management Logistics Invoice Verification Document Entry Enter Invoice

Enter Incoming Invoice: Company Code US00							
Show PO structure	e Show worklist 🕴 🖷	Hold 🐯 Simulate Messages	🚹 Help				
Transaction	1 Invoice	•	💓 🔿 Balance	0.00			
Basic data	Payment Details	Tax Contacts Note					
Invoice date	04/30/2010	Reference					
Posting Date	04/30/2010						
Amount Tax Amount	3,200.00	Calculate tax XI XI (Input Tax)					
Text	INVOICE 00504-000						
Baseline Date							
Company Code	US00 Global Bike Inc. D	allas					
		\frown					
1 Purchase Order/S	cheduling Agreemer 🗸		1 Go	ods/service items 🔹 👻			
			Layout	7_6310 All information 🔹			

Enter today's date as Invoice date using F4 and Enter. Check your Company Code US00. Enter the amount from the invoice above (3,200.00) in the Amount field and select XI as Tax Code (field next to Tax Amount). Then, type in INVOICE 00504-### as Text and click on 🧐

date US00 3,200.00 XI INVOICE 00504-###

your PO

number

today's

Menu

path

Enter (or find) your PO number in the middle of the screen (next to the drop-down field with Purchase Order/Scheduling Agreement) and press Enter.

Enter Incoming Invoice: Company C Show PO structure Show worklist R Hold	Simulate Messages		
Show PO structure Show worklist 🖷 Hold 🚦	Simulate Messaries		
	a contratate of mesoages	🚹 Help	
Transaction 1 Invoice	•	CCC Balance	0.00 USD
Basic data Payment Details Tax Co	ontacts Note	Vendor 0000135000	
Invoice date 04/30/2010 Reference Posting Date 04/30/2010 USD Amount 3,200.00 USD Tax Amount X1XI (input Text INVOICE 00504-000 Paymt terms Due immediately Baseline Date 04/30/2010 Company Code US00 Global Bike Inc. Dallas	⊂alculate tax Tax) ▼	Mid-West Supply 335 W Industrial Lake Dr LINCOLN NE 68528 USA	
1 Purchase Order/Scheduling Agreemer - 45000000	1 🔜 🖻	1 Goods/s	ervice items 🔹 🔻
		Layout 7.	_6310 All information 🛛 👻
Item Amount Quantity 0	Dr Trunchase Item	Smart Number	PO Text
3,200.00 100E	A <u>45 0000001</u> 10		Chain Lock 🗢

Check the **Booking OK** check box in your line item. Use the Simulate button to see if the postings are correct.

Booking OK

Finally, click on	Post to post your invoice receipt.	The system v	will gene	erate a	Invoice
unique document	Document no. 5105600102 created	number	for	this	document
Click on the exit	ss screen.			number	
15) Display Purchase Order History

To display the purchase order history, follow the menu path:

Logistics Materials Management Purchasing Purchase Order Display

Your PO is displayed automatically. If not, click on 🗳 (Other Purchase Order) and find your PO number. If the line item data is not yet displayed, open the section by clicking on 🎾 Item Detail.

On the Purchase Order History tab, review the activity that has taken place in reference to this purchase order. Click on your **WE** (Goods Receipt) **material document number**. This will bring you directly to the material document created when you did your goods receipt.

On the Doc. info tab, select FIDocuments. You are now

looking at the General Ledger posting that took place in the background when you saved your goods receipt. Click on twice to go back to your PO.

On the Purchase Order History tab, click on your **RE-L** (Invoice Receipt) document number. This will bring you directly to the invoice document you just created when you did your invoice receipt.

Ledger posting that happened in the background when you saved your invoice receipt. Click on to go back to the invoice document.

On the right side of the screen, click on III (Line item list) to see

here that the invoice is still open, meaning that you have not paid the vendor.

Click on the exit icon \mathfrak{G} three times to return to the SAP Easy Access screen.

RE-L

WE

Menu path

16) Create Goods Receipt for Purchase Order

To create a goods receipt for a parenase oracl, follow the menu path.	
Logistics ► Materials Management ► Inventory Management ► Goods Movement ► Goods Receipt ► For Purchase Order ► GR for Purchase Order (MIGO)	Menu path
Make sure that Goods Receipt and Purchase Order are selected in the dropdown lists. Enter your PO number in the field next to them. The press Enter. The data of your purchase order should now be populate into the fields.	n, Goods Receipt ed Purchase Order Your PO number
The system should default in the remaining 100 pieces. If the line item the item overview section is read only, click on ¹ at the bottom of the screen to close the item detail section. Then, check OK . SLoc (Storage location) Trading Goods should already be entered.	in ne 100 ge
	OK
	Trading Goods
Finally, click on Post or I to post your goods receipt. The system will create a unique goods receipt document.	Goods receipt document
Click on the exit icon ${f G}$ to return to the SAP Easy Access screen.	

To create a goods receipt for a purchase order, follow the menu path:

To create an invoice receipt, follow the menu path:	
Logistics Materials Management Logistics Invoice Verification Document Entry Enter Invoice	Menu path
Analogous to the first invoice receipt, enter today's date as Invoice date using F4 and Enter. Check your Company Code US00 . Enter the amount	today's date
from the invoice above (3,200.00) in the Amount field and select XI as Tax Code. Then, type in INVOICE 00515-### as Text and click on	US00 3,200.00
	XI INVOICE 00515-###
Enter your PO number in the middle of the screen (next to the drop-down field with Purchase Order/Scheduling Agreement) and press Enter.	your PO number
Check the Booking OK check box in your line item. Use the Simulate button to see if the postings are correct. Click on	Booking OK
Post to post your invoice receipt. The system will generate a	
unique number for this document.	
Click on the exit icon 🙆 to return to the SAP Easy Access screen.	

17) Create Invoice Receipt from Vendor

18) Post Payments to Vendor

To post payments to a vendor, follow the menu path:

Accounting ► Financial Accounting ► Accounts Payable ► Document Entry ► Outgoing Payment ► Post

In the Post Outgoing Payments: Header Data screen, enter (or select) **today's date** as Document Date.

In the Bank data field group, enter Account **100000** (Bank Account), the amount you are going to pay (**6400**), and the Text "**INVOICES 00504-### & 00515-###**".

In the Open items selection field group, enter (or find) the vendor number for your **Mid-West Supply** vendor in the Account field (again, use City **Lincoln** and Search term ### in the F4 help). Verify your data with the screenshot below. Mid-West Supply Lincoln ###

Menu path

Today's date

100000 6,400.00 INVOICES

. . .

Post Outgoi	ng Paymer	nts: Header	Dat	a		
Process open item	IS					
Document Date	04/30/2010	Type KZ]	Company Code	USOO	
Posting Date	04/30/2010	Period 4]	Currency/Rate	USD	
Document Number				Translatn Date		
Reference				Cross-CC no.		
Doc.Header Text				Trading Part.BA		
Clearing text						
Bank data						
Account	100000			Business Area		
Amount	6400			Amount in LC		
Bank charges				LC bank charges		
Value Date	04/30/2010			Profit Center		
Text	INVOICES 0050	04-000 and 00515	000	Assignment		
Open item selection	1			Additional selection	ns	
Account	135000	٥		 None 		
Account Type	К	Other accounts		OAmount		
Special G/L ind		Standard Ols		O Document Nur	mber	
Pmnt advice no.				OPosting Date		
Distribute by age				O Dunning Area		
Automatic search	1			Others		

Select **Process open items**. This will produce the following screen.

Post Outgoing Payments Process open items									
🤽 📝 Distribute diff. Charge off diff. 🥖 Editing options 🛛 💋 Cash Disc. Due									
Standard Partial Pmt Res.items Withhldg tax									
Account items 135000 Mid-West Sunnly									
Document	DDo	cument	P	Bus	Day	USD Gross	Cash discnt	Cash	
5100000001	RE 04/	30/2010	31		0	3,200.00-			

Invoices selected will be displayed in blue. At the bottom of the screen, you should see that the total amount has been fully assigned.

Editing status		
Number of items 2	Amount entered	6,400.00-
Display from item 1	Assigned	6,400.00-
Reason code	Difference postings	
Display in clearing currency	Not assigned	0.00

Click on \blacksquare to post payments to the Mid-West Supply. The system will create a unique vendor payment document number.

Document 1500000001 was posted in company code US00

payment document number

Vendor

Click on the exit icon Ω and select YES to return to the SAP Easy Access screen.

Yes

19) Display Vendor Line Items

To display the vendor line items, follow the menu path:

Accounting ► Financial Accounting ► Accounts Payable ► Account ► Display Balances

Find or enter the number of your **Mid-West Supply** vendor (for your number ###) in the Vendor field, Company code **US00**, and the **current year** as Fiscal year. Then, click on \bigoplus . This will produce the following screen.

Mid-West Supply US00 current year

Menu path

Bals	Special G/L										
Period	Debit	Credit	Balance	Cum. balance	Sales/Purchases						
Balance Carr											
1											
2											
3											
4	6,400.00	6,400.00			6,400.00-						
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
Total	6,400.00	6,400.00			6,400.00-						

Review for open items. Double-click on the current period to review the line items that make up the balance. Here, you can see which line items are open and which ones have been cleared. In your case, you should see a **symbol**.

Click on 🙆 three times to return to the SAP Easy Access screen.

20) Display Purchase Order History

To display the purchase order history, follow the menu path:

Logistics ► Materials Management ► Purchasing ► Purchase Order ► Display

Your PO is displayed automatically. If not, click on 🗳 (Other Purchase Order) and find your PO number. If the line item data is not yet displayed, open the section by clicking on 🎽 Item Detail.

On the Purchase Order History tab, review the activity that has taken place in reference to this purchase order. Click on the new **WE** (Goods Receipt) material document number – you should now have two documents. This will bring you directly to the material document created when you did your goods receipt.

On the Doc. info tab, select FIDocuments. You are now

looking at the General Ledger posting that took place in the background when you saved your goods receipt. Click on twice to go back to your PO.

On the Purchase Order History tab, click on the new **RE-L** (Invoice Receipt) document number – you should now have two documents. This will bring you directly to the invoice document you just created when you did your invoice receipt.

Select Follow-On Documents You are now looking at the General

Ledger posting that happened in the background when you saved your invoice receipt. Click on 🔇 twice to go back to your PO. On the Delivery Schedule tab, review the line items that have had

deliveries against them. Are there any line items left outstanding? Click on the exit icon 4 to return to the SAP Easy Access screen. RE-L

WE

Menu path

21) Display/Review G/L Account Balances and Individual Line Items

To display G/L account balances, follow the menu path:

Accounting ► Financial Accounting ► General Ledger ► Account ► Display Balances (New)

Enter G/L account **100000** (Bank Account), Company code **US00**, and the **current year** as Fiscal year. Then, click on . A similar screen to the one below will appear ¹ (amounts might be different for you).

100000 US00 current

year

Period	Debit	Credit	Balance	Cum, balance
Bal.Carryforw				
1				
2				
3				
4	65,092.50	11,650.00	53,442.50	53,442.50
5				53,442.50
6				53,442.50
7				53,442.50
8				53,442.50
9				53,442.50
10				53,442.50
11				53,442.50
12				53,442.50
13				53,442.50
Total	65,092.50	11,650.00	53,442.50	53,442.50

Double-click on the row for the current month (the first column indicates the SAP periods which are 12 month plus 1 special period).

On the G/L Account Line Item Display G/L View screen, you can see all debits and credits toward GBI's bank account in the US in the current month.

G/L Account 100000 Bank Account Company Code US00 Ledger OL													
St	Assignment	DocumentNo	BusA	Тур	Doc. Date	PK	Amount in	local cur.	LCurr	Amount ·	in loc.	curr.2	LCur2
>>>>>>	20100423 20100424 20100424 20100424 20100427 20100429 20100430	1400000001 1400000002 1400000003 1500000000 1400000004 1500000001		DZ DZ DZ KZ DZ KZ	04/23/2010 04/24/2010 04/24/2010 04/27/2010 04/29/2010 04/29/2010	40 40 50 40 50		15,000.00 15,000.00 20,092.50 5,250.00- 15,000.00 6,400.00-	USD USD USD USD USD USD				
* 🖌								53,442.50	USD				
** Account 100000							53,442.50	USD					

Note: Because all participants in your class (virtual GBI employees) are posting to the same US bank account, you need to find your postings in the overall list. In order to do so, take a look at the Text column and search for your ####, e.g. "INVOICES 00504-000 and 00515-000" if your number is 000.

INVOICES 00504-000 and 00515-000

###

Once you find your line item, you should also recognize the Document Number. Double-click on your line item to display details. When you scroll down, you should find your user name indicating that you have created the vendor payment document.

🕞 Gen. Ledger Line Item	s: Display	×
Field Description	Field Value	+
Company Code Line Item Transaction Currency Ref. Transactn Record Type Version Account Number CO Area Amount in TC LC Amount OrigTrnsCrcyAmt Debit/Credit Posting period Or.trans.currny Fiscal Year Posting Date Document Number Line item	US00 000001 RFBU USD BKPF 0 1 100000 NA00 6,400.00- 6,400.00- 6,400.00- 6,400.00- H 004 USD 2010 04/30/2010 1500000001 001	
Posting key User Name	50 WEIDNER	
		• ×

Click on 💙 and then choose 😋 twice to go back to the G/L Account Balance Display screen.

Repeat the above procedure for the G/L account **300000** (Payables-Trade Accounts). In the list of documents, you should find your two invoices (INVOICE 00504-### and 300000 INVOICE 00515-###).

Click on the exit icon \mathfrak{Q} to return to the SAP Easy Access screen.

5. 实验方式

每位同学独立上机操作实验,实验指导教师现场指导。

实验 3: 生产计划管理

1. 实验目的

了解并执行一个制造过程周期

- 2. 实验环境
 - 1) 接入 Internet 的实验主机;
 - 2) Windows 7 操作系;
 - 3) SAP GUI.
- 3. 实验内容

为了处理完整的制造过程,学生需要在 GBI 公司内担任不同的角色,例如, 生产主管,车间工人和工厂经理。总体而言,学生对物料管理(MM)和生产计 划与执行(PP)部门的具体工作进行操作。

4. 实验步骤

1) Change Material Master Record

To change a material's view, follow the menu path:

Logistics ► Production ► Master Data ► Material Master ► Material ► Change ► Immediately

Menu

path

F4

Finished

Product

DXTR3##

MRP 3, Forecast

*###

#

In the Material field, find and select your red Deluxe Touring bike first.

If you do not remember its material number, position your cursor in the Material field

and click on the search icon \square or press **F4**. Make sure you are on the Material by

Material Type tab. Select Material Type **Finished Product** (FERT) and enter ***###** in the Material field. Remember to replace **###** by your three-digit number given by your instructor, e.g. *****005 if your number is 005. Then, press Enter and select the red Deluxe Touring bike with a double click.

When your material number (**DXTR3###**) is entered in the Material field, click on 🧐 or press Enter.

On the following screen, select MRP 3 and Forecast.

Change Ma	iterial (In	itial .
Select View(s)	Org. Levels	Data
Material Change Number	DXTR3000	

Then, press Enter or click on ♥. The following screen will appear.

🕞 Organizational I	Levels							
Organizational lev	els							
Plant	DLOO							
Stor. Location	FG00							
Org. levels/profiles only on request								
		Select View(s)						

Find and select the GBI manufacturing facility in Dallas (**DL00**). Then, enter its Finished Goods Stor. Location (**FG00**). Press Enter or click on \checkmark .

In the MRP 3 view, enter Strategy group **40** (Planning with final assembly), Consumption mode **1** (Backward consumption only) and Bwd.consumption per. **30**.

MRP 2	MRP 3	MRP 4	Fore	casting W	ork scheduling	Plant
Material	DXTR3000		Deluxe Touri	na Bike (red)		
Plant	DLOO		Plant Dallas	<u>g</u> (,,		
Forecast Re	quirements					
Period India	ator	M Fis	ical Year Varia	ant	Splitting in	ndicator
Planning						
Strategy gr	oup	40				
Consumptio	n mode	1		Bwd consu	mption per.	30
Fwd consur	nption per.			Mixed MRP		
Planning ma	aterial			Planning pl	ant	
Ping conv.	factor			Planning m	atl BUnit	

Click on \bigotimes to continue to the forecasting tab. Then, press Enter to acknowledge the warning message to check the consumption periods.

On the Forecasting tab, select Initialization pds **12**, uncheck **Reset automatically**, check **Param.optimization**, select Optimization level **F** (Fine), Alpha factor **0.20**, Beta factor **0.10**, Gamma factor **0.30**, and Delta factor **0.30**.

Compare your entries with the screen capture shown below.

	12
	Reset automatically
	Param.optimization
	F
0.20	0.10
0.30	0.30

DL00

FG00

40

1 30

MRP 4	🕞 Foreca	sting	Work schedu	uling Plar	nt data /	stor. 1	Plant da
Material	DXTR3000		Deluxe Tou	uring Bike (re	ed)		
Plant	DLOO		Plant Dallas	;			
General dat	а						
Base Unit o	f Measure	EA	Fore	cast model	X	Period Ind	icator
Last foreca:	st					Fiscal Year	Variant
RefMatl: co	nsumption					RefPlant:c	onsumptic
Date to						Multiplier	
Number of	periods require	d					
Hist. period	s	60	Forecast perio	ods	12	Periods pe	r season
Initialization	pds	12	Fixed periods				
Control dat	Э						
Initialization		х	Tracking limit		4.000		t automat
Model selec	tion.		Selection pro	cedure	2	🖌 Paran	n.optimiza
Optimizatio	n level	F	Weighting gro	oup		Corre	ction fact
Alpha facto	r	0.20	Beta factor		0.10		
Gamma fact	tor	0.30	Delta factor		0.30		
Exe	cute forecast		For	ecast values			Consumpt
I'm the set of a second	··· ··· · · · · · · · · · · · · · · ·					the second states and	

Historic consumption values already have been entered into the GBI system. You can view them on the Forecasting tab, select

Consumption vals . If you do not see the Total

consumption column, press on **Total consumption**. Within the

table you will see the Total Consumption for the periods 04.2010 to 03.2014. These values form the base for later forecasts within this case study.

Please note that within a productive system these values would have been updated based on the goods moved out of storage.

Click on 4 Main Data to return to the overview.

Click on 📙 to save your entries for the red bike.

Repeat the same procedure for the silver and the black deluxe touring bike material master. Start with the silver bike (**DXTR2###**), then modify the black bike (**DXTR1###**).

DXTR2### DXTR1###

Click on the exit icon \mathbf{G} to return to the SAP Easy Access screen.

2) Change Routing

After the operational steps are laid out, the components must be allocated to the individual operations. This is a progressive process where each operation builds off the materials that entered production in the previous operations. To change a routing, follow the menu path:

Logistics Production Master Data Routings Routings ► Standard Routings ► Change

Enter the material number for your red Deluxe Touring bike (DXTR3###). In the Plant field, enter GBI's Dallas plant number (DL00). Please ensure that the Group field is empty. Then, press Enter or click on 🥨.

	Change Routing: Operation Overview																	
•	🔹 🕨 🕃 🗟 🛱 🛱 🕼 🗋 LRef. Work center 🤽 CompAlloc 🙎 Sequences 🧏 PRT 🏖 Inspection Characteristics 👪																	
Ma Se	Asterial DXTR3000 Deluxe Touring Bike (red) Grp.Count1 iequence 0																	
	Operat	tion O	verv.															
B	Op	SOp	Work c	Pint	Co	Standar	Description	L	P	Cl	0	P	C	s	Base Quantity	U	Setup	U
	0010		ASSY1000	DLOO	ASSY		Material staging								15	ΕA		MIN
	0020		ASSY1000	DLOO	ASSY		Attach seat to frame								1	ΕA		MIN
	0030		ASSY1000	DLOO	ASSY		Attach handle bar assembly								1	ΕA		MIN
	0040		ASSY1000	DLOO	ASSY		Attach derailleur gear assm. to wheel								1	ΕA		MIN
	0050		ASSY1000	DLOO	ASSY		Attach front and real wheels to chain								1	ΕA		MIN
	0060		ASSY1000	DLOO	ASSY		Attach brakes								1	ΕA		MIN
	0070		ASSY1000	DLOO	ASSY		Attach peddles								1	ΕA		MIN
	0080		INSP1000	DLOO	ASSY		Test bike								1	EA	2	MIN
	0090		PACK1000	DLOO	ASSY		Disassemble								1	EA		MIN
	0100		PACK1000	DLOO	ASSY		Pack bike								1	EA		MIN
	0110		PACK1000	DLOO	ASSY		Move to storage								15	ΕA		MIN

Choose <u>CompAlloc</u> and select the following two materials.

Item O	/erview							
P., L.,	Path	Ite Component	Quantity	Sort String U.	. I E	3 Ope	Seq.	C
0	0	0010 TRWA1000	2	EA	L			
0 0	0	0020 TRFR3000	1	EA	L			
0	0	0030 DGAM1000	1	EA	L			
0 0	0	0040 TRSK1000	1	EA	L			
0	0	0050 TRHB1000	1	EA	L			
0	0	0060 PEDL1000	1	EA	L			

Once you have selected the red touring frame (TRFR3###) and the touring seat

kit (TRSK1###), choose New Assignment

In the following screen, in the Oper./Act. field enter operation 0020 and press Enter. Back on the Material Component Overview screen, you see that now both components have been assigned to operation 0020.

	Item Ov	erview				
	P., L.,	Path	Ite Component	Quantity Sort String	U I B Ope Seq.	Material Description
	0	0	0010 TRWA1000	2	EA L	Touring Aluminum Wheel Assembly
	0	0	0020 TRFR3000	1	EA L 🗌 0020 0	Touring Frame-Red
	0	0	0030 DGAM1000	1	EA L	Derailleur Gear Assembly
	0	0	0040 TRSK1000	1	EA L 🗌 0020 0	Touring Seat Kit
ſ	0	0	0050 TRHB1000	1	EA L	Touring Handle Bar

Repeat the same process for the other components and assign them to operations as shown below.

Component	Operation
TRHB1### (touring handle bar)	0030

TRFR3### TRSK1###

0020

Menu path

DXTR3### **DL00**

Component

allocation

84

TRWA1### (touring aluminum wheel assembly)	0040	
DGAM1### (derailleur gear assembly)	0040	
CHAN1### (chain)	0050	
BRKT1### (brake kit)	0060	-
PEDL1### (pedal assembly)	0070	
WDOC1### (warranty document)	0100	Г
PCKG1### (packaging)	0100	

TRHB1###

RWA1###

DGAM1###

CHAN1###

BRKT1###

PEDL1###

WDOC1###

PCKG1###

Item Overview												
Ρ.,	L	Path	Ite	Component	Quantity	Sort String	U	I	в	Ope	Seq. (Material Description
	0	0	0010	TRWA1000	2		EA	L		0040	0	Touring Aluminum Wheel Assembly
	0	0	0020	TRFR3000	1		EA	L I		0020	0	Touring Frame-Red
	0	0	0030	DGAM1000	1		EA	L		0040	0	Derailleur Gear Assembly
	0	0	0040	TRSK1000	1		EA	L		0020	0	Touring Seat Kit
	0	0	0050	TRHB1000	1		EA	L		0030	0	Touring Handle Bar
	0	0	0060	PEDL1000	1		EA	L I		0070	0	Pedal Assembly
	0	0	0070	CHAN1000	1		EA	L		0050	0	Chain
	0	0	0080	BRKT1000	1		EA	L I		0060	0	Brake Kit
	0	0	0090	WDOC1000	1		EA	L		0100	0	Warranty Document
	0	0	0100	PCKG1000	1		EA	L		0100	0	Packaging

Click on \bigcirc and save your entries with \blacksquare . Click on the exit icon 0 to go back to the SAP Easy Access Menu.

3) Display Product Group

A product group (product family) supports high-level planning. This way, it is not necessary to delve into the minutia of creating planning forecasts for every material in the company.

To display the deluxe touring bike product group, follow the menu path:

Logistics ► Production ► SOP ► Product Group ► Display

In the Display Product Group: Initial Screen, in the Product group field find and select your group for deluxe touring bikes. In order to do so, press the

search icon 💷 (or pressed F4), enter ###* in the Material description field.

Remember to replace ### with your three-digit number, e.g. enter 009* if your number is 009.

🔄 Name of the product group (1)	
Find product group via MRP controller Find product group via description	1) () 💭
MRP Controller	
Material description 📕 000*	
Language Key 📕 EN	
Product group	
Plant	
Maximum No. of Hits 500	
	 ✓ ✓ ✓

Then, press Enter or click on \checkmark to display the search results. You should see five product groups already defined for your set of material master data (compare with the screen shown below).

				_ ×
Find produc	t group via des	cription		
∇				
Language	Product gro	Pint		
EN	PG-BIKE000	DL00		
EN	PG-DXTR000	DL00		
EN	PG-ORBK000	DL00		
EN	PG-PRTR000	DL00		
EN	PG-TRBK000	DL00		
	Find product Canguage EN EN EN EN EN EN EN	Language Product group via des PO-BIKE000 EN PG-BIKE000 EN PG-DXTR000 EN PG-ORBK000 EN PG-PRTR000 EN PG-TRBK000	Find product group via description C Language Product gro Plnt EN PG-BIKE000 DL00 EN PG-DXTR000 DL00 EN PG-ORBK000 DL00 EN PG-PRTR000 DL00 EN PG-PRTR000 DL00	Find product group via description V Language Product gro Pint EN PG-BIKE000 DL00 EN PG-DXTR000 DL00 EN PG-ORBK000 DL00 EN PG-ORBK000 DL00 EN PG-PRTR000 DL00 EN PG-PRTR000 DL00

Double-click on the line for deluxe touring bicycles to select the group.

Product group

Menu path

###*

Display Product Group: Initial Screen								
Product group								
Plant	DL00							

Now that the correct product group (**PG-DXTR###**) is filled in, make sure that Plant **DL00** is entered. Then, press Enter to display the product group details.

PG-DXTR### DL00

Display Pro	duct Gr	oup: Me	mbers (Ma	aterials	s)		
Hierarchy graphic	: Versions	Master	data Produ	ct grp. gra	phic		
Product group	PG-DXTR0	00	000 Product C	Froup Del	uxe Touring Bicyd	le	
Plant	DL00		Plant Dallas				
Base Unit	EA						
Member number	Plnt	Unit conv. Short Text	Aggr.fa	:t.	Proportion	UоМ МТур	V M Fx
DXTR1000	DL00		1	1	40	EA	
		Deluxe Tou	ıring Bike (black	0		FERT	_
DXTR2000	DL00		1	1	30	EA	
		Deluxe Tou	iring Bike (silve)		FERT	
DXTR3000	DLOO		1	1	30	EA	
		Deluxe Tou	ıring Bike (red)			FERT	

On this screen you can see that this product group defines proportions for three different bikes: the black, silver and red deluxe touring bike. For the black bike a share of 40% will be considered and 30% for the silver and the red bikes each.

Click on the exit icon ${f G}$ to return to the SAP Easy Access screen.

4) Create Sales and Operations Plan

Sales and operations plan
Menu path
PG-DXTR### DL00
Period intervals
current period/current year
previous period/next year

04/20140 03/2014

Aut. model selection

Forecast: Model Selection	
Periods	
 Period intervals 	
Forecast	From 06/2014 To 05/2015
Historical data	From 04/2010 To 03/2014
○No. of periods	
No. of forecast periods	0
No. of historical values	60
Forecast execution	
 Constant models 	Seasonal models
 Trend models 	○Season. trend models
 Aut. model selection 	⊖Historical
Forecast parameters	
Profile	SAP

If needed, click on \checkmark and continue through warning messages. The system selected Trend and season. Click on **Processing**.

🕞 Forecast: Res	sults						
Basic value		319.920	Trend v	/alue		5	
MAD		17	Error to	total 57			
Forecast results	;						
Period	Orig, HV	Corr. HV	Ex-post FV	Orig, FV	Corr. FV	Season	
M 04/2014				316	316	0.9	
M 05/2014				343	343	1.04	
M 06/2014				291	291	0.8	
M 07/2014				307	307	0.90	
M 08/2014				344	344	0.99	
M 09/2014				383	383	1.09	
M 10/2014				347	347	0.9	

No forecast error messages exist

🖌 📙 🕒 🕒 Forecasting 🗶 🛅

You can see that the system tested and found Seasonal and Trend tendencies in the past consumption data and has applied a Seasonal Trend Model.

Click on \checkmark (Copy and Save). The sales forecast is copied into your Sales and Operations Plan.

As Target day's supply enter **5** for each forecasted period (a total of 12 months).

Change Rough-C	ut P	Plan										
🖪 Characteristic 🛛												
Product group P Plant D	G-DXI LOO	TR000	000 Pr	oduct Group I	Deluxe Tourin	g Bicycle						
Version A00 Active version Active												
SOP: plan individual produ	ct gro	up										
🕏 Planning Table	Un	M 07/2014	M 08/2014	M 09/2014	M 10/2014	M 11/2014	M 12/2014	M 01/2015				
Sales	EA	306	344	382	346	336	391	431				
Production	EA											
Stock level	EA	-596	-940	-1322	-1668	-2004	-2395	-2826				
Target stock level	EA											
Days' supply	***											
Target days' supply	***	5	5	5	5	5	5	5				

In a production plan, you plan the quantities you need to produce in order to meet your sales plan. The system then calculates stock levels and days' supply for each period on the basis of the sales and production quantities and any target data. There are several different planning strategies available, which differ in the production values and the stock level changes.

As the SOP is a high level planning, discrete production values are not necessary. The SAP system calculates discrete numbers once the SOP is transferred to the Demand Management.

In the system menu, select:

Edit ► Create productn plan ► Synchronous to sales Note the change in the Production and in the Stock level lines. The production plan is created to match the sales forecast. In the system menu, select 5

Edit Create productn plan Target day's supply

Note the impact on the production plan and stock levels. Production levels are generated to match the sales plus produce enough to put into stock to meet the target days of supply specifications.

Review the Planning Table (your numbers may be different then this table).

6	Change Rough-C	Sut P	lan											
Ŀ	Characteristic 🖩													
Pro Plar	Product group PG-DXTR000 000 Product Group Deluxe Touring Bicycle Plant D100													
Ver	Version A00 Active version Active													
9	OP: plan individual produ	ict gro	up											
卧	Planning Table	Un	M 07/2014	M 08/2014	M 09/2014	M 10/2014	M 11/2014	M 12/2014	M 01/20:					
	Sales	EA	306	344	382	346	336	391	é					
	Production	EA	307	350	390	338	336	398	ł					
	Stock level	EA	49	55	63	55	56	63						
	Target stock level	EA												
	Days' supply	***	5	5	5	5	5	5						
	Target days' supply	***	5	5	5	5	5	5						

Click on Characteristic to review a graphic representation of your

planning table.

Note Although the screen displays integer production values, the SAP system calculates with decimal accuracy. You can display the decimal places by highlighting a row and pressing F8 and enter the amount of decimal places required. Then (re)create the production plan.



You may click on Legend to display a legend for this graphic.

Production	
—— Target stock level	
—— Days' supply	
—— Target days' supply	



5) Transfer SOP to Demand Management

Demand Management is the tool used to disaggregate planning data from high-level plans down to the detailed planning level. For this task, planning for the Deluxe Touring Product Group will be broken down into the individual components that belong to this group. To transfer the SOP to Demand Management, follow the menu path: Logistics ► Production ► SOP ► Disaggregation ► Transfer PG to Demand Management Enter Product group PG-DXTR###, Plant DL00, and the version saved in the previous task (A00). PG-DXTR### DL00 A00

Transfer Pla	nning Data to	Demand Management
Transfer now		
Product group	PG-DXTR000	
Plant	DL00	
Version	A00	
Transfer strategy an	d period	
OSales plan for ma	aterial or PG members	3
OSales plan for ma	at. or PG members as	proportion of PG
OProduction plan f	or material or PG men	nbers
Prod.plan for mat	. or PG members as p	proportion of PG
From	07/28/2010	То
Invisible transfer		
Independent require	ment specifications	
Requirements type		
Version		
Active		

Select **Prod.plan for mat. or PG members as proportion of PG** and **Active**. Then, deselect the **Invisible Transfer** indicator to present the disaggregation results on another screen allowing the planner to modify the results before saving them manually to Demand Management.

Prod.plan for mat. or PG members as prop. of PG Active Invisible Transfer

DXTR1###

Select Transfer now and examine the Planned Independent

Requirements generated for **DXTR1###**.

	Table 1	Items	So	:he	d. Lir	ies						
₽	Material	Plnt	٧	А	BU	M 06/2014	M 07/2014	M 08/2014	M 09/2014	M 10/2014	M 11/2014	M 12
	DXTR1000	DLOO	AG	\checkmark	ΕA	135	123	140	156	135	134	

Then, click on 📙 to save.

Examine the Planned Independent Requirements generated for

DXTR2### and save them with \blacksquare .

DXTR2###

_/	Table 🚺	Items	S	the	d. Lir	nes						
屘	Material	Plnt	V	А	BU	M 06/2014	M 07/2014	M 08/2014	M 09/2014	M 10/2014	M 11/2014	M 1
	DXTR2000	DLOO	AG	\checkmark	ΕA	101	92	105	117	101	101	

Finally, examine the requirements for **DXTR3###** and save them with

DXTR3###

Table Items Sched. Lines												
₽	Material	Pint	V	А	BU	M 06/2014	M 07/2014	M 08/2014	M 09/2014	M 10/2014	M 11/	
	DXTR3000	DLOO	AG	✓	ΕA	101	92	105	117	101		

Note DXTR1### makes up 40%, DXTR2### makes up 30% and DXTR3### another 30% of the production plan created in your Sales and Operations Plan. How is this derived?

Click on the exit icon ${f Q}$ to return to the SAP Easy Access screen.

6) Review Demand Management

To review planned requirements, follow the menu path:



Display Planned In	dependent Requirements : Initial Screen
Display Flaimed in	dependent Neganements, mittal Screen
🚭 User Parameters	
Planned independent requiren	nents for
OMaterial	
Product group	PG-DXTR000
○Reqmts Plan	
Plant	

Select the **Product group** indicator, enter Product group **PG-DXTR###**, Plant **DL00**, and select **(Enter)**.

Product group PG-DXTR### DL00

On the Table tab, review the Planned Independent Requirements for the Deluxe Touring bike product group by material.

Pind Ind	Plnd Ind. Reqmts Display: Planning Table												
Product group P6-DXTR000 000 Product Group Deluxe Touring Bicycle Planning start 06/01/2014 Planning End 07/28/2015 Table Items Sched. Lines													
🗟 Material	Pint	V	А	BU	M 06/2014	M 07/2014	M 08/2014	M 09/2014	M 10/2014	M 11/2014	M 12/2014	M 01/2015	
DXTR1000	DLOO	AG	\checkmark	EA	135	123	140	156	135	134	159	175	
DXTR2000	DLOO	AG	\checkmark	EA	101	92	105	117	101	101	119	131	
DXTR3000	DLOO	AG	\checkmark	EA	101	92	105	117	101	101	119	131	

On the Sched. lines tab, review the requirement dates, planned quantities, values, and total planned quantities.

Plnd Ind. Reqmts Display: Schedule Lines											
4	4 🖬 👬 🕅 🖉 🛰 🖪 🗟										
Produc Plannin T	Product group P6-DXTR000 000 Product Group Deluxe Touring Bicycle Planning start 06/01/2014 Planning End 07/28/2015 Table Items Sched. Lines										
Mater Plant Plan (Material DXTR1000 Deluxe Touring Bike (black) Plant DL00 Regmts type VSF Version/active AG / Regmts Plan Plan Qty 1,780 EA MRP Area										
P.	. RegmtDa	ate	Planned qty		Spl.	s	Value /	USD	PVer	BOMExpNo	StandardVal.
M	06/2014			135			189,000.	.00			
M	07/2014			123			172,200.	.00			
M	08/2014	:		140	1		196,000.	.00			
M	09/2014	:		156			218,400.	.00			
M	10/2014			135			189,000.	.00			
M	11/2014			134			187,600.	.00			
M	12/2014			159			222,600.	.00			
М	01/2015			175			245,000.	.00			
M	02/2015			158			221,200.	.00			
M	03/2015			149			208,600.	.00			
M	04/2015			151			211,400.	.00			
M	05/2015			165			231,000.	.00			

Select 🕨 (Next item) to move to the next material.

Click on the exit icon ${f Q}$ to return to the SAP Easy Access screen.

7) Run MPS with MRP

To run Master Production Scheduling, follow the menu path:

Logistics ► Production ► Production Planning ► MPS ► MPS ► Single-Item, Multi-Level

Enter your material **DXTR3###**, Plant **DL00**, Processing key **NETCH**, select **2** (Purchase requisition in opening period), **3** (Schedule lines), **1** (MRP list), **1** (Adapt planning data (normal mode)), and **1** (Determination of Basic Dates for Planned). Then, select **Display material list**.

Menu path

DXTR3###, DL00 NETCH 2 3 1 1 1 Display material list

Single-Item, Multi-Level DXTR3000 Material DLOO Plant Scope of Planning Product group MRP Control Parameters Processing Key NETCH Net Change in Total Horizon 2 Create Purchase Req. Purchase requisitions in opening period 3 SA Deliv. Sched. Lines Schedule lines 1 Create MRP List MRP list Planning mode 1 Adapt planning data (normal mode) 1 Scheduling Determination of Basic Dates for Planned Process Control Parameters Also plan unchanged components Display results before they are saved ✓ Display material list Simulation mode

Select \bigotimes (Enter). A warning message will appear asking you to check input parameters. Press Enter to confirm and bypass the warning message.

To start the planning run, click on \checkmark (Continue) and review the planning details from the List Display.

Single-Item, Multi-Level

👗 Materials 🚽

Statistics	
Materials planned	17
Materials with New Exceptions	17
Materials with Termination MRP List	

Parameters	
Plnt	DLOO
Processing Key	NETCH
Create Purchase Requisition	2
SA Schedule Line	3
Create MRP List	1
Planning Mode	1
Scheduling	1

Database Statistics	
Planned orders created	192
Purchase requisitions created	12
Dependent requirements created	192

Runtime Statistics	
Start of Planning Run	11:25:53
End of Planning Run	11:25:56
Runtime	00:00:03
CPU Time Read-In	00:00:01
CPU Time: BOM Explosion	00:00:01
CPU Time: Update	00:00:01

Click on the exit icon 🙆 to return to the SAP Easy Access screen.

8) Review Stock/Requirements List

The Stock/Requirements List is a dynamic list which dynamically changes whenever a transaction occurs using the given material. Display and review the Stock/Requirements List for all materials of the red deluxe touring bike on hand and the demand that exists against these products. The report shows that there is no stock and therefore nothing is available for use at this time. To review the Stock/Requirements List, follow the menu path:

Stock/Requiremen ts List

Menu path

Logistics ► Production ► Production Planning ► MPS ► Evaluations ► Stock/Reqmts List

Stock/Requirements List: Initial Screen						
Individual a	ccess Collective access					
Material	DXTR3000	Deluxe Touring Bike (red)				
Plant	DLOO	Plant Dallas				
With filter						

On the Individual access tab, enter Material **DXTR3###** and Plant **DL00** and click on (Enter).

DXTR3### DL00

Stock/Requirements List as of 11:31 hrs									
Show Overview Tree 🗏 🔏 🖥 🖗 📅									
Material DXTR3000 Deluxe Touring Bike (red) Plant DL00 MRP type M1 Material Type FERT Unit EA									
🔀 A Date	MRP	MRP element data	Rescheduli	E	Receipt/Reqmt		Available Qty		
P 306/23/2014	Stock						0		
06/01/2014	IndReq	VSF				101-	101-		
06/30/2014	>	End of Planning Tim	m						
06/30/2014	PldOrd	0000000001/STCK				101	0		
07/01/2014	PldOrd	0000000002/STCK				92	92		
07/01/2014	IndReq	VSF				92-	0		
08/01/2014	PldOrd	0000000003/STCK				105	105		

Choose (Switch to Period Totals). This will allow you to see the planned independent requirements, planned receipts, and ATP quantities based on time; days, weeks, or months.

5	Stock/Requirements List: Period Totals as of 11:31 hrs										
S	Show Overview Tree 🛛 🔔 🛛 😿 🚱 📅										
	Material DXTR3000 Deluxe Touring Bike (red) Plant DL00 MRP type M1 Material Type FERT Unit EA										
	Days Weeks Month	IS									
	A., Period/segment	Plnd ind.re	Requireme	Receipts	Avail. qua	ATP quan	Actu.				
	Stock				0	0	23.				
	06/01/14	101-	0	0	101-	0	30.				
	306/30/14	0	0	101	0	101	0.				
	06/30/14 End of Planni										
	307/01/14	92-	0	92	0	92	0.				
	308/01/14	105-	0	105	0	105	0.				

Select 📕 to go back to the individual lines.

To view the details of the first planned order (PldOrd), select $\ensuremath{\textcircled{\sc select}}$ (Element Details).

🔄 Additional Data for MRP Element									
Pind order	0000000001 Make-to	o-stock	Order finish	06/30/2014 GR ProcTme 0					
Order qty	101	EA	Order start	06/26/2014 Proc. type E					
Scrap	0		Planned opening	06/25/2014 Order type LA					
[에 에 에 바라 -> Prod.Ord. -> PartConvProdOrder -> Proc.Ord. -> SubProcOrd -> Pur.Req. 명									

Select 🚭 (Pegged Requirements).

Pegged Requirements

- 8									
	Planned dates	Material	Material Description	Material Memo	Plant	El	Data	Recpt/reqd	Quantity
	06/01/2014	DXTR3000	Deluxe Touring Bike (red)		DLOO	PP	VSF	101	101

You can see that this planned order is to fulfill our Safety Stock and the first planned independent requirement that was created when we disaggregated our SOP.

Select \blacksquare (Graphic) to see a graphical view of this information. Click on the exit icon 3 twice to return to the SAP Easy Access screen.

9) Convert Planned Order into Production Order

To convert planned orders into production orders, follow the menu path:

Logistics ► Production ► MRP ► Evaluations ► Stock/Requirements List

Enter Material **DXTR3###**, Plant **DL00**, and click on **S** (Enter). Then, double-click on the second planned order.

DXTR3### DL00

Σ	A	Date	MRP	MRP element data	Rescheduli	E	Receipt/Reqmt	Available Qty
6	Q	06/23/2014	Stock					0
	Q	06/01/2014	IndReq	VSF			101-	101-
	Q	06/30/2014	>	End of Planning Tim				
	Q	06/30/2014	PldOrd	0000000001/STCK			101	0
	Q	07/01/2014	PldOrd	0000000002/STCK			92	92

In the Additional Data screen, click on -> Prod.ord (Convert planned order to production order).

Production order Create: Header		
🎤 🗗 🖩 🚰 Material 😤 Capacity 🛛 🚣 🚇 著 品 🗐 🏮 🚹 🏞		
Order \\$000000001	Type	PPOl
Material DXTR3000 Deluxe Touring Bike (red)	Plant	DLOO
Status REL MSPT SETC		
General Assignment Goods Receipt Control Dates/Qties Master Data	a Lon	g Text
Quantities		_
Total Qty 92 EA Scrap Portion	0.00	*
Delivered 0 Short/Exc. Rcpt 0		

Note At this point, please note down the total quantity in your production order. You will need it later when confirming your order.

Total quantity

Determine the status of your order by clicking on 🛄. What does this mean?

Note When you converted the planned order to a production order scheduling takes place, an availability check was automatically carried out and a reservation was placed on the materials specified within the bill of materials. The order was also automatically released when the production order was created.

Click on 🌑 to go back to the header screen and save your production order with

Note When you save the production order the system will automatically calculate the planned costs for the production order and the production order is given a number.

🗹 Order number 1000020 saved

Make sure you record your production order number.

Select (Refresh) to refresh the Stock/Requirements List. In the MRP Element column the planned order **PldOrd** that you selected should now have changed into a production order **PrdOrd**.

Σ	A	Date	MRP	MRP element data	Rescheduli	E.,	Receipt/Reqmt	Available Qty
2		06/23/2014	Stock					0
		06/01/2014	IndReq	VSF			101-	101-
		06/30/2014	>	End of Planning Tim				
		06/30/2014	PldOrd	0000000001/STCK			101	0
		07/01/2014	PrdOrd	000001000020/PP01/Re			92	92
	2	07/01/2014	IndReq	VSF			92-	0

Click on the exit icon 0 to return to the SAP Easy Access screen.

order number

Production

10) Receive Goods in Inventory

Usually, at this point the purchasing department in Dallas would take over and procure enough raw materials from vendors to fill the inventory so that the production process can be initiated. In this case study, we are bypassing this procurement process (this process is explained in the MM unit in detail). Because the inventory for all DXTR3### components is empty, we will assume that we find 500 pieces each in the storage location.

To receive goods in the inventory, follow the menu path:

Logistics ► Materials Management ► Inventory Management ► Goods Movements ► Goods Receipt ► Other

Make sure you click on **Other** and not on **Other (MIGO)**. This should produce the following screen.

Enter Oth	er Goods Red	ceipts: In	itial Screen	
🗋 New Item	To Reservation	To Order	WM Parameters	
Document Date	07/29/2010		Posting Date	07/29/2010
Material Slip			<u> </u>	
Doc.Header Text				
Defaults for Doc	ument Items			
Movement Type	561		Special Stock	
Plant	DL00 🗗		Reason for Move	ement
Storage Location	n 🦳		Suggest Zero	Lines

Enter **today** as Document and Posting Date, Movement Type **561** (Receipt per initial entry of stock balances into unr.-use), Plant **DL00**, and leave Storage Location blank. Then, press Enter or click on **S**.

In the Enter Other Goods Receipts: New Item screen, enter the following data. Each one of these ten materials are components that you later on need in your production order. Note that all materials are stored in the raw materials storage location in Dallas except the touring wheel assembly (first component in the list) which is a semi-finished good.

Material	Quantity	SLoc	
TRWA1### (Touring Aluminum Wheel Assembly)	500	SF00	
TRFR3### (Touring Frame-Red)	500	RM00	
DGAM1### (Derailleur Gear Assembly)	500	RM00	TRWA1#
TRSK1### (Touring Seat Kit)	500	RM00	TRFR3#
TRHB1### (Touring Handle Bar)	500	RM00	DGAM1#
PEDL1### (Pedal Assembly)	500	RM00	TRSK1#

Goods receipt

Menu path

CHAN1### (Chain)	500	RM00	TRHB1###
BRKT1### (Brake Kit)	500	RM00	PEDL1###
WDOC1### (Warranty Document)	500	RM00	CHAN1###
PCKG1### (Packaging)	500	RM00	BRKT1###
	•	•	WDOC1###

PCKG1###

Before pressing Enter compare your screen with the screenshot shown below. Remember that your material numbers are different. If there are not enough rows for all materials, click on \Box (New Items).

(.

Ite	ems						
F	Item	Material	Quantity	UnE	SLoc	Batch	R
	1	TRWA1000	500		SFOO		
	2	TRFR3000	500		RMOO		
	3	DGAM1000	500		RMOO		
	4	TRSK1000	500		RMOO		
	5	TRHB1000	500		RMOO		
	6	PEDL1000	500		RMOO		
	7	CHAN1000	500		RMOO		
	8	BRKT1000	500		RMOO		
	9	WD0C1000	500		RMOO		
	10	PCKG1000	500		RMOO		

Save your goods receipt with \blacksquare and record the material document number. Then, click on the exit icon 3 to return to the SAP Easy Access screen.

Material document number

11) Issue Goods to Production Order

The goods issue process is fully defined in the production order, BOM, and routing.The quantities and the materials are reserved for this specific production order, willGoodsbe withdrawn with reference to the order number, and will be used to assign actualissuecosts to the production order for managerial accounting purposes.issue

To issue goods to a production order, follow the menu path:

Menu path

today today

261 DL00

Logistics ► Production ► Shop Floor Control ► Goods Movements ► Goods Issue

This should produce the following screen. Enter Goods Issue: Initial Screen New Item To Reservation... To Order... WM Parameters... Document Date 06/23/2014 Posting Date 06/23/2014 Material Slip Doc.Header Text Defaults for Document Items Movement Type 261 Special Stock Plant DLOO Reason for Movement Storage Location Suggest Zero Lines

Enter **today** as Document Date and Posting Date, Movement Type **261** (Consumption for order from warehouse), Plant **DL00**, and leave Storage Location blank. Then, click

on the To Order... button.

Enter your production order number from two tasks back.

	Production
	order
	number
If you have not written down your production order number you can find it in the	
system. In order to do so, in the Order field press F4 or click on the search icon \square .	F4
In the Order Number (1) screen, use the icon on the far right 回 to display a list of	
all tabs. Please select the Production orders using the info system tab. On this tab,	
enter your material DXTR3### in the Material field and click on 🕀. Double-click on	
the result row to adopt your production order number into the initial screen.	DXTR3##
	#
Once you have found and entered your production order number, click on \checkmark to continue.	

An itemized list will appear. It lists all the materials and their respective quantities

that need to be issued to your order. You need to tell the system what Storage Location the materials should be withdrawn from. For the wheel assembly (TRWA1###), enter **SF00** (Semi-finished goods) and for all other materials **RM00** (Raw materials) in the SLoc fields. Before pressing Enter compare your screen with the one shown below.

SF00 RM00

Ite	ems									
F	Item	Material	Quantity	UnE	SLoc	Batch	Re	Plnt	Itm	FIs
✓	1	TRWA1000	184	EA	SFOO]	DLOO	1	
✓	2	TRFR3000	92	EA	RMOO]	DLOO	2	
✓	3	DGAM1000	92	EA	RMOO]	DLOO	3	
✓	4	TRSK1000	92	EA	RMOO]	DLOO	4	
✓	5	TRHB1000	92	EA	RMOO]	DLOO	5	
✓	6	PEDL1000	92	EA	RMOO]	DLOO	6	
✓	7	CHAN1000	92	EA	RMOO]	DLOO	7	
✓	8	BRKT1000	92	EA	RMOO]	DLOO	8	
✓	9	WD0C1000	92	EA	RMOO]	DLOO	9	
✓	10	PCKG1000	92	EA	RMOO]	DLOO	10	

Click on the Adopt + Details button. A series of screens will appars asking you to

copy in the requirements for each of the dependent requirements. Click on \square to accept the details for each material.

Finally, on the Enter Goods Issue: Overview screen you will see all of the goods issue quantities for each of the materials.

Ent	ter God	ods Issue	e: O	verview				
	3 🚇 т	o Reservation	l	To Order				
Posting) Date	06/23/	2014					
Items								
Item		Quantity	EUn	Material	Plnt	SLoc	Batch	Re MVT S S
			BUn	Material Description			Reserv.No.	Itm FIS
1	184		EA	TRWA1000	DLOO	SFOO		261 -
				Touring Aluminum Whee	el Assem	ibly	48	1
2	92		EA	TRFR3000	DLOO	RMOO		261 -
				Touring Frame-Red			48	2
3	92		EA	DGAM1000	DLOO	RMOO		261 -
				Derailleur Gear Assembly			48	3
4	92		EA	TRSK1000	DLOO	RMOO		261 -
				Touring Seat Kit			48	4
5	92		EA	TRHB1000	DLOO	RMOO		261 -
				Touring Handle Bar			48	5
6	92		EA	PEDL1000	DLOO	RMOO		261 -
				Pedal Assembly			48	6
7	92		EA	CHAN1000	DLOO	RMOO		261 -
				Chain			48	7

Click on \blacksquare (Post) and record the material document number.

Material document

number

Click on the exit icon ${f \mathfrak{S}}$ to return to the SAP Easy Access screen.

12) Review Production Order Status

To display the production order, follow the menu path:

Logistics Production Shop Floor Control Order Display	Menu path
Enter the number of your production order .	
	Productio
	n order
	number
If you have not written down your production order number you can find it in the	
system. In order to do so, in the Order field press F4 or click on the search icon \square .	F4
In the Order Number (1) screen, use the icon on the far right 🛄 to display a list of	
all tabs. Please select the Production orders using the info system tab. On this tab,	
enter your material DXTR3### in the Material field and click on 😔. Double-click on	
the result row to adopt your production order number into the initial screen.	DXTR3##
	#

When your production order number is entered, click on 3. Note that the order status has changed and review it by clicking on 1 again.

👼 Display Status						
H						
Drder 1000020					Туре	PPO.
Material DXTR3000	Deluxe	Tour	ing Bike	(red)	Plant	DLO
Status Business processes						
Syst. Status			Status v	with Status Number		
X St Text		Х	Status	Text	No.	
REL Released	<u> </u>					
MSPT Material shortage						
PRC Pre-costed	88					•
GAPS Goods movement posted						Ψ.
SETC Settlement rule createu						
			Status \	Without Status No.		
		Х	Status	Text		
	-					1
						T

You did a goods issue to the production order in the last task. Now, you want to review the cost assigned to the order, the material document, and the corresponding accounting document.

In order to do so, click on 📀 to go back to the header screen and then in the system menu select:
Goto ► Costs ► Analysis

Cost Element	Cost Element (Text)	Origin	ΣΤα	otal target costs	ΣТ	otal actual costs	Σ	Target/actual var.	T/I var(%) Curr
720300	Semi-Finished Consumption Expense	DL00/TRWA1000		0.00		20,240.00		20,240.00	USE
			1.1	0.00	•	20,240.00	•	20,240.00	USE
720000	Raw Material Consumption Expense	DL00/DGAM1000		0.00		6,900.00		6,900.00	USD
720000	Raw Material Consumption Expense	DL00/TRFR3000		0.00		18,400.00		18,400.00	USD
720000	Raw Material Consumption Expense	DL00/TRSK1000		0.00		4,600.00		4,600.00	USD
720000	Raw Material Consumption Expense	DL00/TRHB1000		0.00		2,300.00		2,300.00	USE
720000	Raw Material Consumption Expense	DL00/PEDL1000		0.00		4,140.00		4,140.00	USD
720000	Raw Material Consumption Expense	DL00/CHAN1000		0.00		920.00		920.00	USD
720000	Raw Material Consumption Expense	DL00/BRKT1000		0.00		6,440.00		6,440.00	USD
720000	Raw Material Consumption Expense	DL00/WDOC1000		0.00		92.00		92.00	USD
720000	Raw Material Consumption Expense	DL00/PCKG1000		0.00		322.00		322.00	USD
Raw Materi	als			0.00		44,114.00	•	44,114.00	USE
				0.00		64,354.00	• •	64,354.00	USE

Here you can see the costs that were assigned to the production order from our goods issue.

Click on the exit icon ${igoplus}$ to go back to the SAP Easy Access menu.

13) Confirm Production Completion

When the assembly has been completed for the current production order, we needProductionto confirm that certain procedures and activities have been completed and recordProductionthe quantity of the end product that has been manufactured.completionTo confirm production completion, follow the menu path:Menu path

Logistics ► Production ► Shop Floor Control ► Confirmation ► Enter ► For Order

Enter your **production order** number and click on @.

	Production
	order
	number
Select Final Confirm. and Clear Reservation. In the Yield to conf. field, enter the	
amount of bikes you were supposed to produce for this order. Remember that your	Final
amount might be different from the screen below.	Confirm.
	Clear
	Reservatio
	n
	Amount

Confirmatio	n of Production	Order Enter : Actu	al Data	
🗟 Goods Movemer	nts			
Order Material Number	1000020 DXTR3000	Status: REL_MSPT_PRC_C Deluxe Touring Bike (red)	GMPS SETC	
Confirmation Type				
○Partial Confirm.	● Final Confirm.	○Aut. Final Conf.	✓Clear Reservation	
Actual Data				
Yield to conf. Confirmed scrap Rework Reason for Var.	Curr. t/b Conf. 92	Unit Confirmed to Date	Planned t/b Conf.	Unit

Then, change the Execution start to **1 hour earlier** than the default time.

1 hour earlier

	To Be Confirmed					
Execution start	06/23/2014	13:00:18				
Finish Execut.	06/23/2014	14:00:18				
Posting date	06/23/2014					

Click on @ and save your entries with \blacksquare .

Note When the confirmation is saved, labor costs for the order are calculated automatically. The quantity yield also establishes the parameters for the goods receipt into Inventory.

Click on the exit icon \mathfrak{Q} to return to the SAP Easy Access screen.

14) Receive Goods from Production Order

Receive the completed products into finished goods inventory. Check the quantity purposed against the quantity specified in the production order and the quantity specified during confirmation. If there are any discrepancies, the system will decide if an error or warning message should be generated depending upon the deviation identified.

To post a goods receipt, follow the menu path:

Logistics ► Production ► Shop Floor Control ► Goods Movements ► Goods Receipt

This produces the following screen.

Enter Movement Type **101** (Goods receipt for order to warehouse), your **production order number**, Plant **DL00**, Stor. Location **FG00** (Finished Goods), and select Adopt + Details.

101 Production order number DL00 FG00

Goods Rece	ipt for Order	: New It	tems 0001		
Ē.					
Order	1000020		Movement Type	101 GR for orde	er
Plant	DL00 Plant Dallas				
Material	DXTR3000		Deluxe Touring Bik	e (red)	
Stock Material					
Ordered		92 EA			
Received		0			
Quantity in					
Unit of Entry	92	EA	Stor. Location	FG00	Stock Type
			Batch		

Goods receipt

Menu path

Ensure that the quantity to be placed into inventory and the storage location are correct. Then, click on \Box to accept the details for the new bikes received from production.

Posting Date	06/23/2014]						
Items								
F Item Quantity	E	SUn	Material	Pint	SLoc	Order		
	E	BUn	Material Description			Batch	Re	MvT
1 92	I	EA	DXTR3000	DLOO	FGOO	1000020		
			Deluxe Touring Bike (re	ed)				101

In the overview screen, review the item to ensure that all the data is correct.

- Movement Type \rightarrow 101 (goods receipt into Inventory)
- Storage Location \rightarrow FG00 (Inventory)
- Quantity → should equal the amount that you confirmed in the previous task

Click on \blacksquare to post the goods receipt. When you save this material document the actual value of the material produced was entered into the

production order.

Document 500000011 posted

Material document

number

Record the material document number.

Click on the exit icon ${f G}$ to return to the SAP Easy Access screen.

15) Review Costs Assigned to Production Order

To display costs assigned, follow the menu path:

Logistics Production Shop Floor Control Order	Menu path
Display	

Enter your **production order number**, and click on 🥸 (Enter).

Production order number

In the system menu, select:

Goto ► Costs ► Analysis

Cost Elemer	nt Cost Element (Text)	Origin	Σ	Total target costs	ΣΤ	otal actual costs	Σ	Target/actual var.	T/I var(%)	Curre
720300	Semi-Finished Consumption Expense	DL00/TRWA1000		0.00		20,240.00		20,240.00		USD
741700	Manufacturing Output Settlement Va	DL00/DXTR3000		0.00		128,800.00-		128,800.00-		USD
				0.00	•	108,560.00-	•	108,560.00-		USD
800000	Labor	NAPR1000/LABOR		0.00		2,301.75		2,301.75		USD
Production	n			0.00	•	2,301.75	•	2,301.75		USD
720000	Raw Material Consumption Expense	DL00/DGAM1000		0.00		6,900.00		6,900.00		USD
720000	Raw Material Consumption Expense	DL00/TRFR3000		0.00		18,400.00		18,400.00		USD
720000	Raw Material Consumption Expense	DL00/TRSK1000		0.00		4,600.00		4,600.00		USD
720000	Raw Material Consumption Expense	DL00/TRHB1000		0.00		2,300.00		2,300.00		USD
720000	Raw Material Consumption Expense	DL00/PEDL1000		0.00		4,140.00		4,140.00		USD
720000	Raw Material Consumption Expense	DL00/CHAN1000		0.00		920.00		920.00		USD
720000	Raw Material Consumption Expense	DL00/BRKT1000		0.00		6,440.00		6,440.00		USD
720000	Raw Material Consumption Expense	DL00/WDOC1000		0.00		92.00		92.00		USD
720000	Raw Material Consumption Expense	DL00/PCKG1000		0.00		322.00		322.00		USD
Raw Mate	rials			0.00	•	44,114.00	•	44,114.00		USD
				. 0.00		62,144.25-		62,144.25-		USD

Now that the finished products have been received in the Inventory, the Manufacturing Output Settlement Variance has been added. How is this figure calculated by the system?

Click on the exit icon \mathbf{G} to return to the SAP Easy Access screen.

16) Settle Costs of Production Order

To settle costs of a production order, follow the menu path:

Logistics ► Production ► Shop Floor Control ► Period-

If you have to input the Controlling Area, enter NA00, and click on \checkmark .

NA00

Actual Settlen	nent: Order			
😔 Settlement Rule				
Drder	1000020			
Parameters				
Settlement period	006		Posting period	006
Fiscal Year	2014		Asset Value Date	
	d. A. deservation	_		

Enter your **production order number**, the **current month** as Settlement period (e.g. 007 for July), the **current month** as Posting period, and the **current year** as Fiscal year. Make sure that **Test Run** is selected.

Production order number current month current month current year Test Run

Then, click on 🕹 (Execute).

Processing Options	
Selection Parameters	Value
Execution type	Settlement executed
Processing mode	Testrun
Processing completed with no errors	
Processing category	Σ Number
Settlement executed	1
No change	
Not relevant	
Inappropriate status	
Error	
	- 1

Click on III (Detail lists). In the system menu, choose:

Environments <a> Report

Then, double-click on Actual/Plan/Variance to select the report.

Actual/Plan/Varian

🖙 Select Report	×
Orders: Actual/Plan/Variance Orders: Actual/Plan/Commitments Orders: Drilldown by Partner Orders: Accruals/Category	
✓ Technical names on/off 3	×

Order/Group 1000020 000001000020 Fiscal year 2014 Period 1 - 6					
Cost Flements Disp					
COSC Elements Actual Fian					
720000 RM Consumpt Expense 44,114.00 44,114 720300 SF Consmpt Expense 20,240.00 20,240 800000 Labor 2,301.75 2,301					
Costs 66,655.75					
741700 Mfac Output Sett Var 128,800.00-					
* Deliveries to Stock 128,800.00-					
** Balance 62,144.25- 66,65					
Click on 🔇 to go back. Then, select Yes and click on 🔇					
twice. Yes					
Deselect Test Run and execute again with 🦃. Click on 🎹 (Detail lists) and					
jelect uii (keport). Choose report Actual/Plan/variance.					

се

Orders: Actual/Plan/Variance					
🏗 🕼 🏪 💷 🕅 🛛 🐨 🛛 🕵 🃅 🛛 🏯 🛜 🏾 🌐 Column 🛛 🖌 🔸 🕨 🖓 🖓 🏭					
	Orders: Actual/Plan/Variance	Date: 06/23/2014 14	4:19:30		
	Order/Group 1000020 0 Fiscal year 2014	00001000020			
	Period 1 - 6				
	Cost Elements	Actual	Plan		
	720000 RM Consumpt Expense	44,114.00	44,114		
	720300 SF Consmpt Expense 800000 Labor	20,240.00	20,240		
	000000 14001	2,301.73	2,301		
1	* Costs	66,655.75	66,655		
	741700 Mfac Output Sett Var	62,144.25			
1	* Settled Costs	62,144.25			
	741700 Mfac Output Sett Var	128,800.00-			
1	* Deliveries to Stock	128,800.00-			
1	** Balance		66,655		

Note The manufacturing output settlement ist higher than the consumption expenses for raw materials and semi-finished goods? Review and explain the expenses and the settlements of your production order in detail. How is the balance derived?

Click on 2, choose $\underbrace{}_{\text{Yes}}$ and click on 2 again to return to the SAP Easy Access screen.

Yes

5. 实验方式

每位同学独立上机编程实验,实验指导教师现场指导。