Action Guide

Production Scheduling Template

Version 2.0

Welcome to Production Scheduling Template Version 2.0: *Intuitive Excel-based Production Scheduling System for Made-to-Order Manufacturer* from www.Planning-Templates.com

This Action Guide will shows you, step-by-step, how to implement this template as your production scheduling system to prevent over capacity issue, create master schedule for all concern from all departments in your manufacturing.

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1

Production Scheduling Template Big Picture

Production Scheduling Template version 2.0 is an intuitive and very affordable production scheduling system for made-to-order manufacturing. It's an excel-based template which can run it by using Microsoft Excel version 97-2003, 2007 and above version. This template will empower schedulers to help their manufacturing solve production planning issues such as late order, can not commit new customer with accurate due date. With this tool scheduler can have powerful visual scheduling and can handle multi-shift capacity in the same schedule page.

1-1 Main Benefit

- Improve % On Time Delivery
- Improve % Customer Satisfaction Rate
- Reduce % Over Capacity Issue
- Reduce % Late Order per Period
- Reduce labor cost and overhead cost support for urgent order

1-2 Key Features

- **Easy to Learn** - With step-by-step quick guide.

- **Easy to Use** – Develop for every Excel users with macro button for repetitive tasks or complicate tasks.

- **Flexible on Shift Capacity** – You can mix the different number of shifts per day in the same production schedule. for an example - workcenter#1 can have capacity 21 hour per day by running 3 shift per day with 7 hour per shift, workcenter#2 can have capacity 20 hour per day by running 2 shift per day, with 7 working hour per shift and 3 overtime hour per shift, workcenter#3 can have capacity 8 hour per day by running only 1 shift per day with 8 hour per shift

- **Production Run Rate of products can varies on each machines** – It's easy for you to manage this following case; workcenter#2 as new machine can produce Product A at rate 20 unit per hour, while if run on the old machine,workcenter#1, will be produced at only rate 10 unit per hour

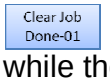
- **Powerful Visual Scheduling** – with visual control during scheduling
    - Green bar chart for On Time zone
    - Red Alert when order is late
    - Red Alert when over shift capacity

- **Flexible Gantt Chart** – Can view Gantt chart by selecting from-to date and click on 

and can print only this-week schedule in one page.

- **Automate Start date and End date Calculation** - After loading work orders already, when click on 

button. All planned start date and the planned end date including shift name of all work centers will be automatically calculation. You also calculate only targeted work center by click on  button at header of that work center.

- **Easy to clear job done with automated rescheduling** – When work order has been complete, just click on 

button all job done within that work center will be deleted while the work in process order will be sorted by job start date.

- **Filter only rows which stored work center data** –Just click on  button for filtering or click on 

button for showing all rows. It will be easy for reporting and scheduling propose.

- **60 Days Time Fence Period** – You can have schedule visibility for 60 days with maximum of 3 shifts per day.

- **Update all reports in one time** - Update all Production Schedule Reports for all concern automatically when click on 

(Calculation All) at the header near logo.

- **Unlimited Customized Reports** – Can copy from standard report for all fields in Production Scheduling Worksheet, and using Pivot Table for multi-dimensional analysis.

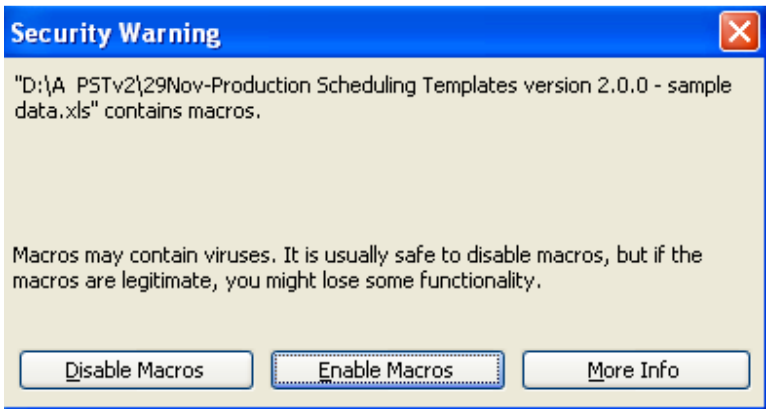
1-3 Product Conditions

Please read this session carefully before starting your implementation

- **Support for Excel 97-2003, Excel 2007 and Excel 2010** – This template store as xls file type. You cannot run on Excel version older from Excel 97.
- **Specific Path (C:\PSTV2)** – Production Scheduling Template version 2.0 will have 3 related files. There are one ticket file, one application extension file (dll file) and Production Scheduling Template version 2.0 .xls file. Those files need to be installed in the specific path only, C:\PSTV2.

- **Macro Enabled** - Production Scheduling Template version 2.0 use macro functions to help scheduler do this job more productivity.

  For **Excel 2003** when opening Production Scheduling Template version 2.0, your Excel will show information bar to ask you like this



  Please click on “Enable Macros “

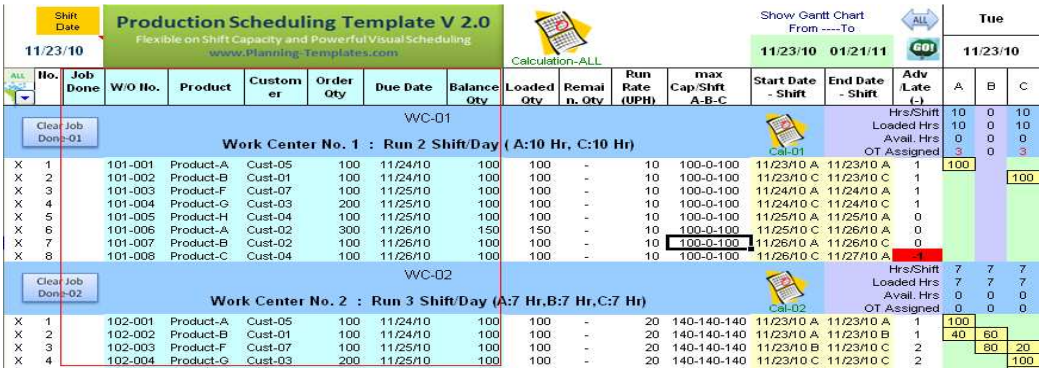
  For **Excel2007** you can set “C:\ PSTV2” as “Trusted Location” [Excel Option | Trust Center | Trust Center Setting…| Trusted Location | Add new location | browse…] you can run Production Scheduling Template version 2.0 without any concern on macro setting again.

  For **Excel2007** If you set macro setting as “disable all macro with notification” [Excel Option | Macro Setting] every time when

you run Production Scheduling Template version 2.0 you will see “Security Warning” message in message bar: “Macros has been disabled”, you must click “Option” button and click on radio button of “Enable this content”.

- **Single User License for a Specific Computer** - When you buy Production Scheduling Template version 2.0 you will have a single user license which can use in a *specific computer only*. Before installation, please select your target computer which plan to run Scheduler123 in production environment, not in testing environment.

- **Read-only Cells** – Production Scheduling Template version 2.0 prevent user accidently adjust calculated information which lead to be wrong information, therefore those cells will be protected. All input cells will have “Light Bluen” color background. See area within red square in image below for an example



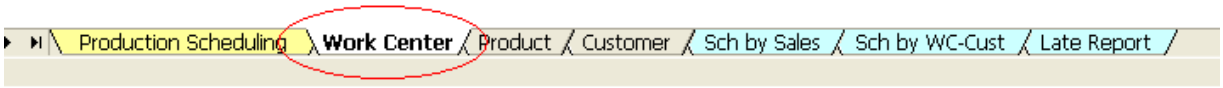
Chapter

2

Production Scheduling Template – Set Up

2-1 Set up Work Center

Step 1: Click on “Work Center” worksheet to set up work center information.



Step 2: Input Work Center information

Work Center	Work Center Name	Shift A			Shift B			Shift C			Total Hour /Day	Sat Off	Sun Off	Work Center Description	Cost Center	WC Remark
		Working Hour /Shift	OT Hour /Shift	Total Hour /Shift	Working Hour /Shift	OT Hour /Shift	Total Hour /Shift	Working Hour /Shift	OT Hour /Shift	Total Hour /Shift						
WC-01	Work Center No. 1	7	3	10	0	0	0	7	3	10	20	No	Yes	Run 2 Shift/Day (A:10 Hr, C:1	101-001	R1
WC-02	Work Center No. 2	7	0	7	7	0	7	7	0	7	21	No	Yes	Run 3 Shift/Day (A:7 Hr,B:7 H	101-002	R2
WC-03	Work Center No. 3	8	0	8	0	0	0	0	0	0	8	No	Yes	Run 1 Shift/Day (A:8 Hr)	101-003	R3
WC-04	Work Center No. 4	7	3	10	7	3	10	0	0	0	20	No	Yes	Run 2 Shift/Day (A:10, B:10)	101-004	R4
WC-05	Work Center No. 5	7	0	7	7	0	7	7	0	7	21	No	Yes	Run 3 Shift/Day (A:7,B:7,C:7)	101-005	R5
WC-06	Work Center No. 6	7	3	10	0	0	0	7	3	10	20	No	Yes	Run 2 Shift/Day (A:10, C:10)	101-006	R6
WC-07	Work Center No. 7	7	0	7	7	0	7	7	0	7	21	No	Yes	Run 3 Shift/Day (A:7,B:7,C:7)	101-007	R7
WC-08	Work Center No. 8	7	3	10	7	3	10	0	0	0	20	No	Yes	Run 2 Shift/Day (A:10, B:10)	101-008	R8
WC-09	Work Center No. 9	7	3	10	7	3	10	0	0	0	20	No	Yes	Run 2 Shift/Day (A:10, B:10)	101-009	R9
WC-10	Work Center No. 10	8	0	8	0	0	0	0	0	0	8	Yes	Yes	Run 1 Shift/Day (A:8)	101-010	R10

Work Center: work center number which be created by the system

(WC-01…WC-10)

Work Center Name: your work center number or machine name

Production Scheduling Template provide 3 shift per day (Shift A, Shift B, Shift C), each shift will have own capacity. If some work centers have 2 shifts, the third shift will have zero capacity.

Working Hour/Shift.: number of regular working hour per shift

OT Hour/Shift: number of overtime hour per shift (may be regular overtime due to be forced by compensation competition in the industry)

Total Hour/Shift: automated calculation from the system.

Total Hour/shift = Working Hour/Shift + OT Hour/Shift

Total Hour/Day: automated calculation from the system.

Total Hour/Day = Total Hour/shift of Shift A + Total Hour/shift of Shift B

+ Total Hour/shift of Shift C

Sat Off: If “Yes” means all shift capacity of all Saturday will be zero

Sun Off: If “Yes” means all shift capacity of all Sunday will be zero

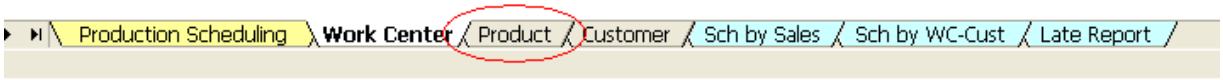
Work Center Description: machine name or description (use for user-defined report)

Cost Center: Cost center number or machine group (use for user-defined report)

Work Center Remark: Remark on work center (use for user-defined report)

2-2 Create Product Data

Step 1: Click on “Product” worksheet to create customer information.



Step 2: Create Product information

Product	Product Name	Product Group	Product Type	Product Remark	Production Run Rate (Unit per Hour)						
					WC-01	WC-02	WC-03	WC-04	WC-05	WC-06	WC-07
Product-A	aaaaaaaaaaaa	Group1	Type1		10.00	20.00	30.00	10.00	20.00	30.00	10.00
Product-B	bbbbbbbbbbbb	Group2	Type2		10.00	20.00	30.00	10.00	20.00	30.00	10.00
Product-C	cccccccccccccc	Group3	Type3		10.00	20.00	30.00	10.00	20.00	30.00	10.00
Product-D	dddddddddddd	Group1	Type4		10.00	20.00	30.00	10.00	20.00	30.00	10.00
Product-E	eeeeeeeeeeee	Group2	Type5		10.00	20.00	30.00	10.00	20.00	30.00	10.00
Product-F	ffffffffffffffffffff	Group3	Type1		10.00	20.00	30.00	10.00	20.00	30.00	10.00
Product-G	gggggggggggg	Group1	Type2		10.00	20.00	30.00	10.00	20.00	30.00	10.00
Product-H	hhhhhhhhhhhh	Group2	Type3		10.00	20.00	30.00	10.00	20.00	30.00	10.00
Product-I	iiiiiiiiiiiiiiii	Group3	Type4		10.00	20.00	30.00	10.00	20.00	30.00	10.00
Product-J	jjjjjjjjjjjjjjj	Group4	Type5		10.00	20.00	30.00	10.00	20.00	30.00	10.00

Product Data: Product (**required**), Product Name (option), Product Group, (option), Product Type (option), Product Remark (option)

All option fields can show on your custom reports using Pivot Table.

For implementation phase, you can import current product data in one time. (Use copy and paste special-value)

When receive new work order of active product, you can load new work order and select current product in drop down list.

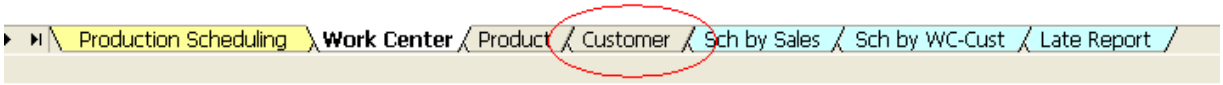
But if work order require new product, you must add new product in “Product” worksheet before input work order in “Production Scheduling” worksheet.

Step 3: Create Production Run Rate of each work center

You can have production run rate of the same product in different rate if run in different machines. The unit of measurement of production run rate is “Unit per hour” or “UPH”

2-3 Create Customer Information

Step 1: Click on “Customer” worksheet to create customer information.



Step 2: Create Customer information

Customer	Sales Rep.	Customer Group	Area	Customer Remark
Cust-01	Sales-XX	G1	North	
Cust-02	Sales-XX	G1	West	
Cust-03	Sales-XX	G1	North	
Cust-04	Sales-YY	G2	South	
Cust-05	Sales-YY	G2	West	
Cust-06	Sales-YY	G2	South	
Cust-07	Sales-YY	G3	West	
Cust-08	Sales-ZZ	G3	North	
Cust-09	Sales-ZZ	G3	Eastern	
Cust-10	Sales-ZZ	G3	South	

Customer Data: Customer (**required**), Sales Rep. (option-suggested), Customer Group, (option), Area (option), Customer Remark (option)

All option fields can show on your custom reports using Pivot Table.

For implementation phase, you can import current customer data in one time. (Use copy and paste special-value)

When receive new work order of current customer, you can load new work order and select current customer in drop down list.

But if this work order was bought by new customer, you must add new customer in “Customer” worksheet before input work order in “Production Scheduling” worksheet.

Chapter

3

Production Scheduling Template – Input

Everyday at least once a day, scheduler need to develop up-to-date production schedule send to all concern

Scheduler will update information which may come from 2 sources:

Production Supervisor - send actual output report of yesterday including Balance Quantity of each operation as of today (7:00, 8:00, up to start time of shift)

Account Executive/Program Officer/Material Planner - send Work Order Loading Requisition for new Work Order

In summary, scheduler will have the following daily input data tasks:

3.1 Input data of new work order

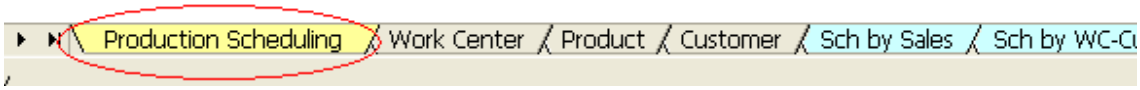
3.2 Do production scheduling with visual control

3.3 Update balance quantity of current work order

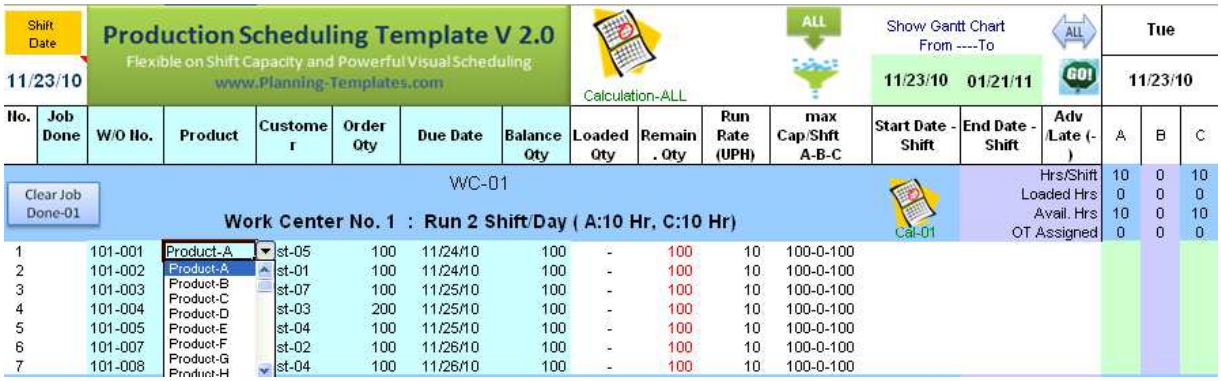
3.4 Clear work order which have been done

3-1 Input Data of New Work Order

Step 1: Click on “Production Scheduling” worksheet.



Step 2: Input new work order



3-1-1 Order Input Data

W/O No.: Work Order or Production Order or Manufacturing Order

Product: select product from drop down list, if does not found need to create new product in “Product” worksheet

Customer: select customer from drop down list, if does not found need to create new customer in “Customer” worksheet

Order Qty: Order Quantity

Due Date: Committed delivery date with customer

Balance Qty: for new work order, Balance Qty is the same quantity as Order Qty

3-1-2 Automated Calculation Data - 1

Loaded Qty: quantity which load to this work center (load into Gantt chart in the right side)

Remain. Qty: remaining quantity after deduct current loaded quantity

Remain. Qty = Balanced Qty – Loaded Qty

Run Rate (UPH): Production run rate based on product and work center. Data will be look up from “Product” worksheet. Unit of Measurement is Unit per Hour (UPH)

Max Cap. Shift A-B-C: Maximum Capacity of each shift. If you have 2 shifts, A and C, with shift capacity 10 hours per shift (7 working hour and 3 OT hour), and run product A with run rate of 10 UPH. The Max Cap. Shift A-B-C will show as “100-0-100”. This information helps scheduler when loading into target shift.

3-1-3 Automated Calculation Data – 2

After you have loaded number of planned quantity into Gantt chart already (explain later), click on 

button of that work center.

The three columns will be calculated as follow;

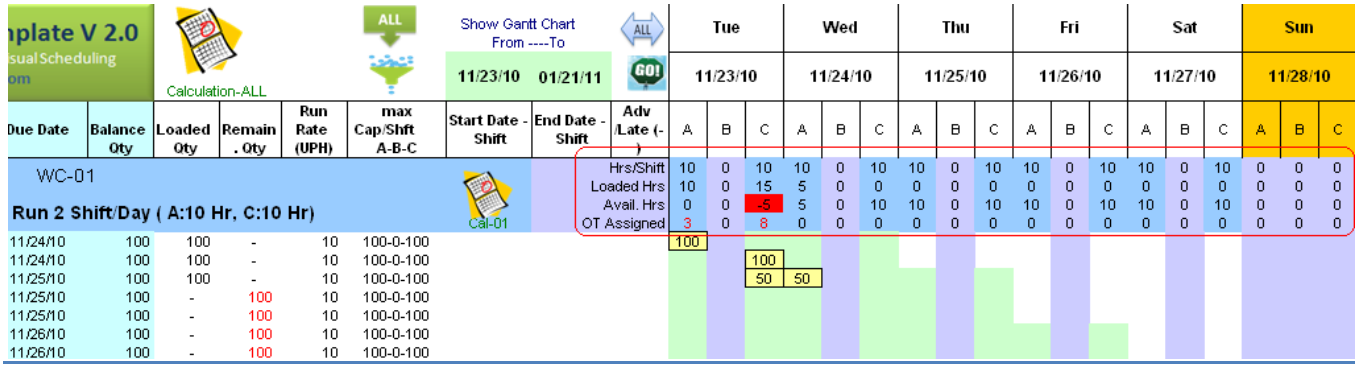
Start Date - Shift: Planned start date of this work order including shift name.

End Date - Shift: Planned end date of this work order including shift name.

Adv/Late (-): Number of days in advance or late when comparing between due date and planned end date. If the number show negative number with red border means it is late order.

You can click on Calculation-ALL located at header near logo. It will calculate for all work centers in the same time and also update all reports automatically.

3-2 Production Scheduling with Visual Control



3-2-1 Shift Capacity Information

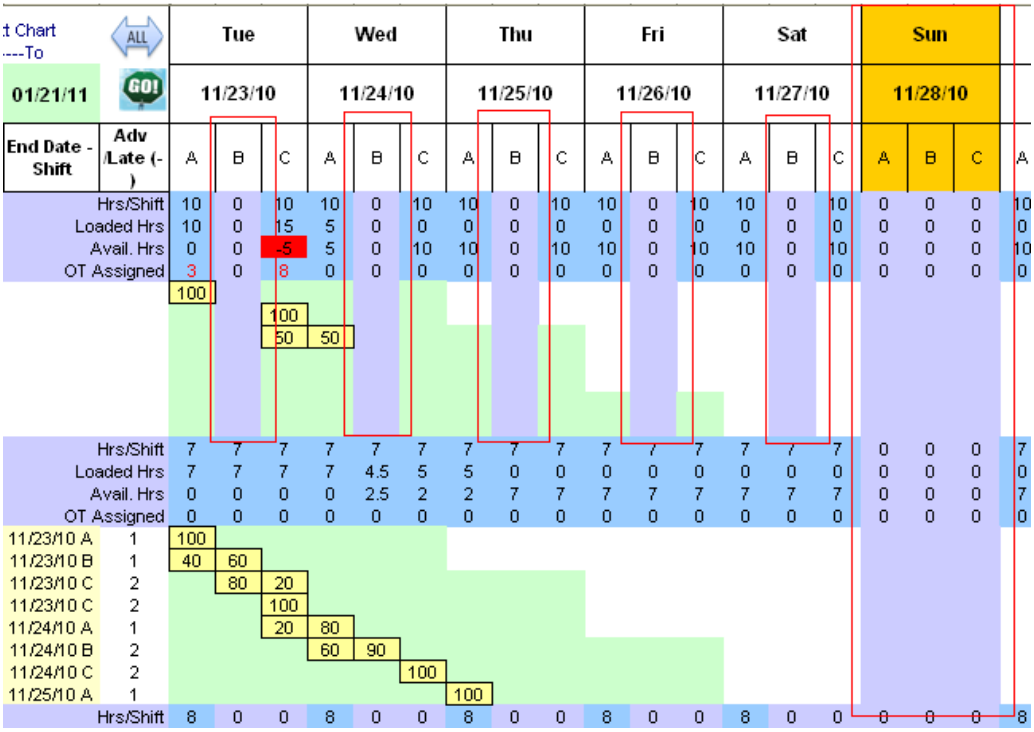
Every work center will have 4 sets of shift capacity information to support during scheduling

Hrs/Shift.: Number of hour of that shift.

Based on work center set up in “work center” worksheet below, it will show total hrs/shift of that shift. (Include OT Hrs/shift)

Work Center	Work Center Name	Shift A			Shift B			Shift C			Total Hour /Day	Sat Off	Sun Off
		Working Hour /Shift	OT Hour /Shift	Total Hour /Shift	Working Hour /Shift	OT Hour /Shift	Total Hour /Shift	Working Hour /Shift	OT Hour /Shift	Total Hour /Shift			
WC-01	Work Center No. 1	7	3	10	0	0	0	7	3	10	20	No	Yes
WC-02	Work Center No. 2	7	0	7	7	0	7	7	0	7	21	No	Yes
WC-03	Work Center No. 3	8	0	8	0	0	0	0	0	0	8	No	Yes
WC-04	Work Center No. 4	7	3	10	7	3	10	0	0	0	20	No	Yes
WC-05	Work Center No. 5	7	0	7	7	0	7	7	0	7	21	No	Yes

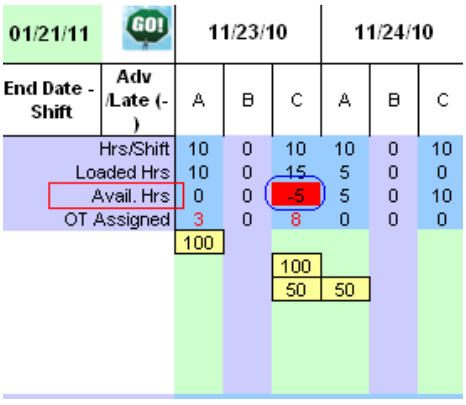
In case of the value of “Sat Off” or ”Sun Off” is “Yes”, the value of “Hrs/Shift” of that day (all 3 shifts) will be zero.



You can see “Silver” Shade for every shift that has zero capacity. It’s easy for scheduler to schedule.

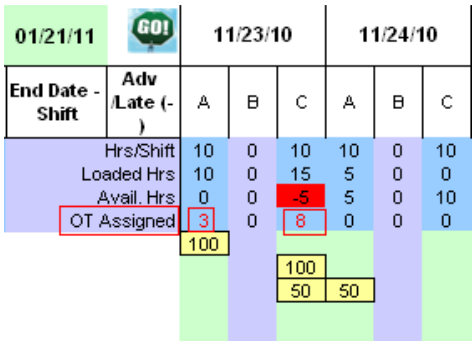
Loaded Hrs: Number of loaded hour of that shift. It sums up total loaded hour from all order which load into that shift. While the number of hours required of each order comes from “Loaded Quantity” of that shift / “Run Rate (UPH)”.

Avail. Hrs: Available hour = Hrs/Shift – Loaded Hrs



You can see “Red” border for every shift that has negative capacity. It’s easy for scheduler to see and to prevent over capacity during scheduling.

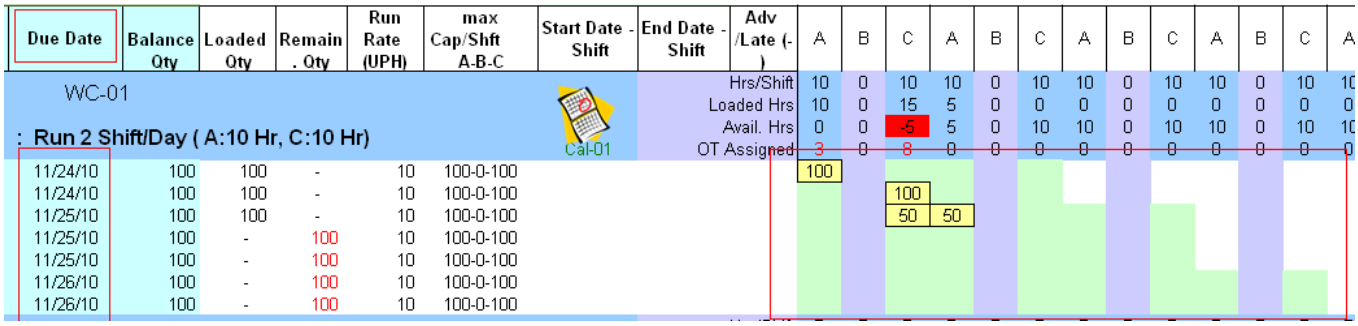
OT Assigned: Number of overtime hour which include planned OT/shift in work center set up.



01/21/11	GO!	11/23/10			11/24/10		
End Date - Shift	Adv /Late (-)	A	B	C	A	B	C
Hrs/Shift		10	0	10	10	0	10
Loaded Hrs		10	0	15	5	0	0
Avail. Hrs		0	0	-5	5	0	10
OT Assigned		3	0	8	0	0	0
		100					
				100			
				50	50		

You can see the number in “Red” for every shift that has overtime number. It’s easy for scheduler to see and to make decision whether assign planned overtime or not.

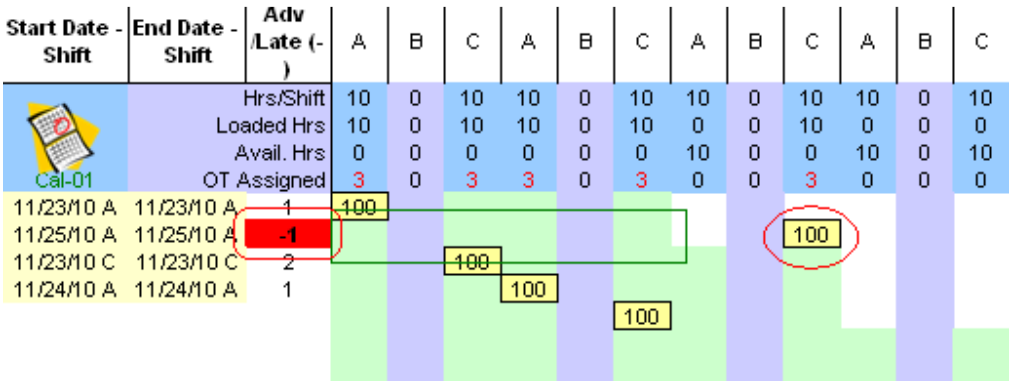
3-2-2 Green Zone for On Time Delivery



Due Date	Balance Qty	Loaded Qty	Remain. Qty	Run Rate (UPH)	max Cap/Shft A-B-C	Start Date - Shift	End Date - Shift	Adv /Late (-)	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A
WC-01								Hrs/Shift	10	0	10	10	0	10	10	0	10	10	0	10	10	0	10	10
								Loaded Hrs	10	0	15	5	0	0	0	0	0	0	0	0	0	0	0
: Run 2 Shift/Day (A:10 Hr, C:10 Hr)						Cal-01		Avail. Hrs	0	0	-5	5	0	10	10	0	10	10	0	10	10	0	10	10
								OT Assigned	3	0	8	0	0	0	0	0	0	0	0	0	0	0	0
									100															
11/24/10	100	100	-	10	100-0-100						100													
11/24/10	100	100	-	10	100-0-100						100													
11/25/10	100	100	-	10	100-0-100						50	50												
11/25/10	100	-	100	10	100-0-100																			
11/25/10	100	-	100	10	100-0-100																			
11/26/10	100	-	100	10	100-0-100																			
11/26/10	100	-	100	10	100-0-100																			

You can see the “Light Green” bar chart for every order. Those green zone are On Time Delivery area, if you schedule out of this area you will find the late order.

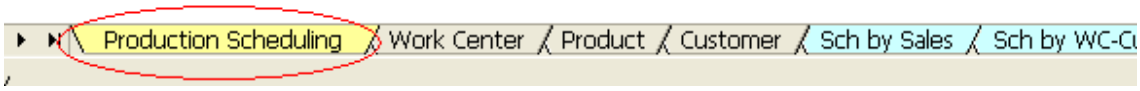
3-2-3 “Red” Alert for Late Order



You can see the “Red” border for one order and show late for 1 day.

3-3 Update Balance Quantity of Current Work Order

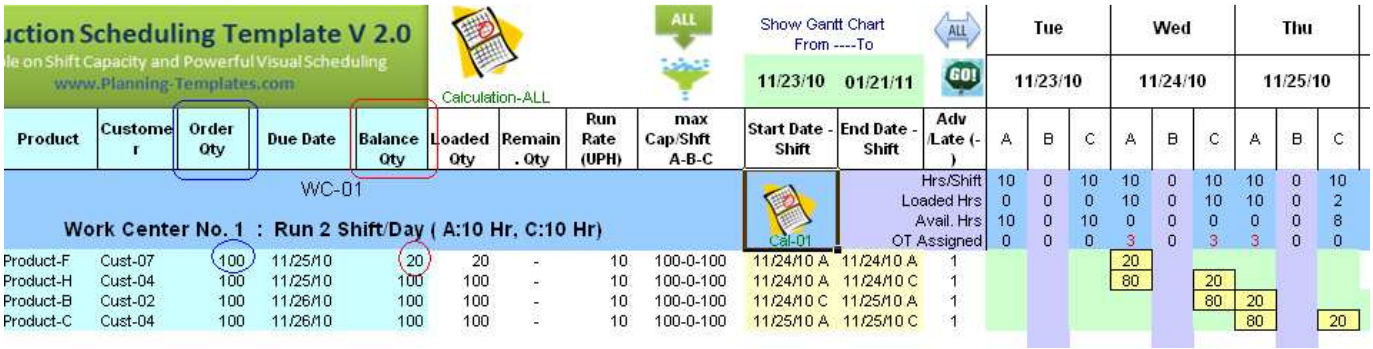
Step 1: Click on “Production Scheduling” worksheet.



Step 2: Update Balanced Quantity of current job order

Some work order can be produced but did not complete as work in process, we need to update balance quantity and do rescheduling.

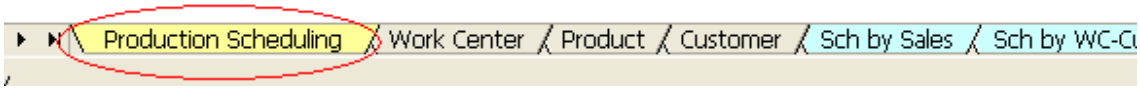
Scheduler will use balance quantity from shop floor report to update “Balance Qty”.



Step 3: Works on rescheduling with visual control tools.
(Reference to Charter 3-2 for more details)

3-4 Clear Work Orders which have been done

Step 1: Click on “Production Scheduling” worksheet.



Step 2: Input “Y” in “Job Done” column

No.	Job Done	W/O No.	Product	Customer	Order Qty	Due Date	Balance Qty	Loaded Qty	Remain. Qty
1	Y	101-001	Product-A	Cust-05	100	11/24/10	100	100	-
2	Y	101-002	Product-B	Cust-01	100	11/24/10	100	100	-
3		101-003	Product-F	Cust-07	100	11/25/10	100	100	-
4	Y	101-004	Product-G	Cust-03	200	11/25/10	100	100	-
5		101-005	Product-H	Cust-04	100	11/25/10	100	100	-
6		101-007	Product-B	Cust-02	100	11/26/10	100	100	-
7		101-008	Product-C	Cust-04	100	11/26/10	100	100	-

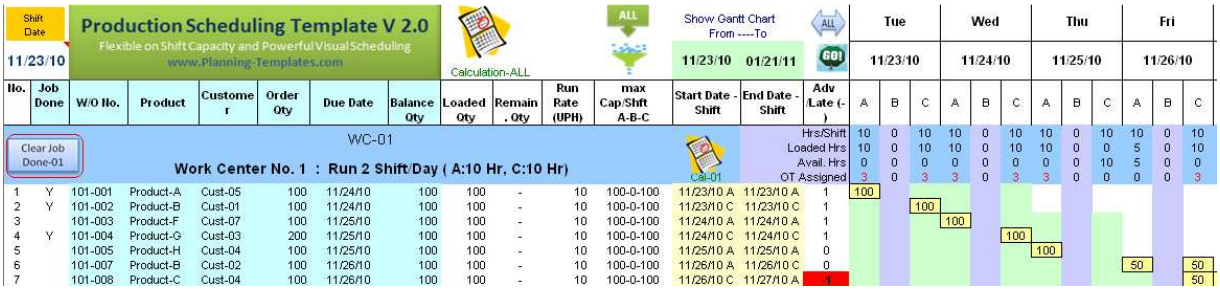
Step 3: Click on “Clear Job Done-01”

Remark: 01 mean WC-01, each work center will be own clear button

No.	Job Done	W/O No.	Product	Customer	Order Qty	Due Date	Balance Qty	Loaded Qty	Remain. Qty
1	Y	101-001	Product-A	Cust-05	100	11/24/10	100	100	-
2	Y	101-002	Product-B	Cust-01	100	11/24/10	100	100	-
3		101-003	Product-F	Cust-07	100	11/25/10	100	100	-
4	Y	101-004	Product-G	Cust-03	200	11/25/10	100	100	-
5		101-005	Product-H	Cust-04	100	11/25/10	100	100	-
6		101-007	Product-B	Cust-02	100	11/26/10	100	100	-
7		101-008	Product-C	Cust-04	100	11/26/10	100	100	-

The result will be:

BEFORE click “Clear Job Done-01”



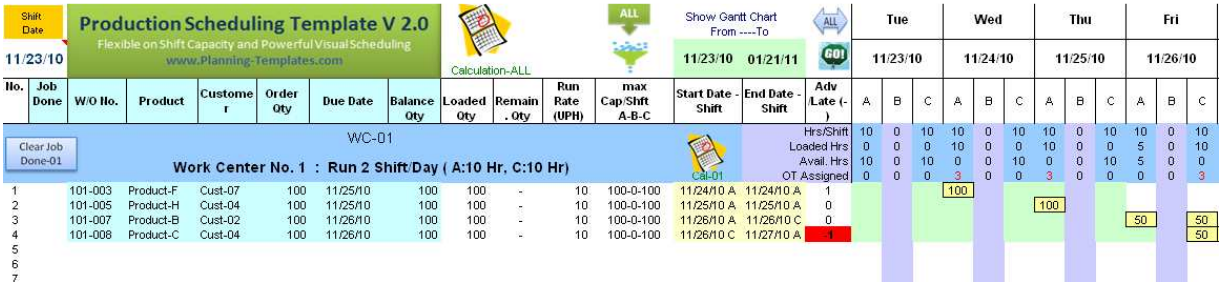
Shift Date 11/23/10 — Production Scheduling Template V 2.0 — Flexible on Shift Capacity and Powerful Visual Scheduling — www.Planning-Templates.com — Calculation-ALL — Show Gantt Chart From ----To 11/23/10 01/21/11 — Tue 11/23/10 — Wed 11/24/10 — Thu 11/25/10 — Fri 11/26/10

No.	Job Done	W/O No.	Product	Customer	Order Qty	Due Date	Balance Qty	Loaded Qty	Remain. Qty	Run Rate (UPH)	max Cap/Shft A-B-C	Start Date - Shift	End Date - Shift	Adv /Late (-)	Tue A	Tue B	Tue C	Wed A	Wed B	Wed C	Thu A	Thu B	Thu C	Fri A	Fri B	Fri C
															Hrs/Shift	10	0	10	10	0	10	10	0	10	10	0	10
															Loaded Hrs	10	0	10	10	0	10	10	0	0	5	0	10
															Avail. Hrs	0	0	0	0	0	0	0	0	10	5	0	0
															OT Assigned	3	0	3	3	0	3	3	0	0	0	0	3
1	Y	101-001	Product-A	Cust-05	100	11/24/10	100	100	-	10	100-0-100	11/23/10 A	11/23/10 A	1	100											
2	Y	101-002	Product-B	Cust-01	100	11/24/10	100	100	-	10	100-0-100	11/23/10 C	11/23/10 C	1			100									
3		101-003	Product-F	Cust-07	100	11/25/10	100	100	-	10	100-0-100	11/24/10 A	11/24/10 A	1				100								
4	Y	101-004	Product-G	Cust-03	200	11/25/10	100	100	-	10	100-0-100	11/24/10 C	11/24/10 C	1						100						
5		101-005	Product-H	Cust-04	100	11/25/10	100	100	-	10	100-0-100	11/25/10 A	11/25/10 A	0							100					
6		101-007	Product-B	Cust-02	100	11/26/10	100	100	-	10	100-0-100	11/26/10 A	11/26/10 C	0										50		50
7		101-008	Product-C	Cust-04	100	11/26/10	100	100	-	10	100-0-100	11/26/10 C	11/27/10 A	-1												50

Clear Job Done-01 — WC-01 — Work Center No. 1 : Run 2 Shift/Day (A:10 Hr, C:10 Hr) — Cal-01

AFTER click “Clear Job Done-01”

Work order number 101-101,101-102,101-104 with their data will be deleted; the rest order will be moved up and sorted again by start date and end date.



Shift Date 11/23/10 — Production Scheduling Template V 2.0 — Flexible on Shift Capacity and Powerful Visual Scheduling — www.Planning-Templates.com — Calculation-ALL — Show Gantt Chart From ----To 11/23/10 01/21/11 — Tue 11/23/10 — Wed 11/24/10 — Thu 11/25/10 — Fri 11/26/10

No.	Job Done	W/O No.	Product	Customer	Order Qty	Due Date	Balance Qty	Loaded Qty	Remain. Qty	Run Rate (UPH)	max Cap/Shft A-B-C	Start Date - Shift	End Date - Shift	Adv /Late (-)	Tue A	Tue B	Tue C	Wed A	Wed B	Wed C	Thu A	Thu B	Thu C	Fri A	Fri B	Fri C
															Hrs/Shift	10	0	10	10	0	10	10	0	10	10	0	10
															Loaded Hrs	0	0	0	10	0	0	10	0	0	5	0	10
															Avail. Hrs	10	0	10	0	0	10	0	0	10	5	0	0
															OT Assigned	0	0	0	3	0	0	3	0	0	0	0	3
1		101-003	Product-F	Cust-07	100	11/25/10	100	100	-	10	100-0-100	11/24/10 A	11/24/10 A	1				100								
2		101-005	Product-H	Cust-04	100	11/25/10	100	100	-	10	100-0-100	11/25/10 A	11/25/10 A	0							100					
3		101-007	Product-B	Cust-02	100	11/26/10	100	100	-	10	100-0-100	11/26/10 A	11/26/10 C	0										50		50
4		101-008	Product-C	Cust-04	100	11/26/10	100	100	-	10	100-0-100	11/26/10 C	11/27/10 A	-1												50
5																										
6																										
7																										

Clear Job Done-01 — WC-01 — Work Center No. 1 : Run 2 Shift/Day (A:10 Hr, C:10 Hr) — Cal-01

Chapter

4

Production Scheduling Template – Report

4-1 Generate Production Schedule to all Concern

Every time when you click Calculation-ALL button, all report will be updated automatically.

Production Scheduling Template provides 3 standard reports which you can copy and modify using Pivot Table feature per your requirements.

All fields which show on “Production Scheduling” worksheet can in show in all custom reports..

Here are standard reports for you:

(1) Production Schedule by Sales/Customer

(2) Production Schedule by Work Center & Customer

(3) Late Order Report

Production Schedule by Sales/Customer

Count of W/O No.									
Sales Rep.	Customer	Product	W/O No.	Start Date - Shift	End Date - Shift	Due Date	Order Qty	WC	Loaded Qty
Sales-XX	Cust-01	Product-A	110-001	11/23/10 A	11/23/10 A	11/25/2010	200	WC-10	200
		Product-B	102-002	11/23/10 A	11/23/10 B	11/24/2010	100	WC-02	100
			101-002	11/25/10 C	11/25/10 C	11/24/2010	100	WC-01	100
			103-002	11/23/10 A	11/23/10 A	11/24/2010	100	WC-03	100
			106-002	11/23/10 A	11/23/10 A	11/25/2010	100	WC-06	100
		Product-F	109-006	11/24/10 A	11/24/10 A	11/25/2010	250	WC-09	200
		Product-I	108-009	11/23/10 A	11/23/10 A	11/25/2010	200	WC-08	200
	Cust-02	Product-C	110-012	11/24/10 A	11/24/10 A	11/28/2010	100	WC-10	50
		Product-D	110-013	11/24/10 A	11/24/10 A	11/29/2010	100	WC-10	50
		Product-A	102-006	11/24/10 A	11/24/10 B	11/26/2010	300	WC-02	150
			106-010	11/24/10 C	11/24/10 C	11/25/2010	300	WC-06	150
		Product-B	101-007			11/26/2010	100	WC-01	0
			102-007	11/24/10 C	11/24/10 C	11/26/2010	100	WC-02	100
			106-011	11/24/10 C	11/24/10 C	11/25/2010	100	WC-06	100
			107-002	11/23/10 A	11/23/10 C	11/25/2010	300	WC-07	150

Production Schedule by Work Center - Customer

Sum of Loaded Qty								Customer						
WC	Start Date	Shft	End Date	W/O No.	Product	Due Date	Order Qty	Cust-01	Cust-02	Cust-03	Cust-04	Cust-05	Cust-06	Cust-07
WC-01	11/25/2010	C	11/25/2010	101-002	Product-B	11/24/2010	100	100						
	11/23/2010	A	11/23/2010	101-001	Product-A	11/24/2010	100					100		
		C	11/23/2010	101-003	Product-F	11/25/2010	100							100
	11/24/2010	A	11/24/2010	101-004	Product-G	11/25/2010	200			100				
		C	11/24/2010	101-005	Product-H	11/25/2010	100				100			
WC-02	11/25/2010	A	11/25/2010	102-008	Product-C	11/26/2010	100				100			
	11/23/2010	A	11/23/2010	102-001	Product-A	11/24/2010	100					100		
				102-002	Product-B	11/24/2010	100	100						
		B	11/23/2010	102-003	Product-F	11/25/2010	100							100
		C	11/23/2010	102-004	Product-G	11/25/2010	200			100				
			11/24/2010	102-005	Product-H	11/25/2010	100				100			
	11/24/2010	A	11/24/2010	102-006	Product-A	11/26/2010	300		150					
		C	11/24/2010	102-007	Product-B	11/26/2010	100		100					
WC-03	11/23/2010	A	11/23/2010	103-001	Product-A	11/24/2010	100					100		
				103-002	Product-B	11/24/2010	100	100						
	11/24/2010	A	11/24/2010	103-003	Product-F	11/25/2010	100							100

Late Report

Count of Loaded Qty									
Adv /Late (-)	Sales Rep.	Customer	Product	Due Date	Start Date - Shift	End Date - Shift	W/O No.	Order Qty	Loaded Qty	WC
-2	Sales-YY	Cust-07	Product-C	11/25/2010	11/25/10 B	11/27/10 A	107-012	400	300	WC-07
-1	Sales-XX	Cust-01	Product-B	11/24/2010	11/25/10 C	11/25/10 C	101-002	100	100	WC-01
0	Sales-XX	Cust-03	Product-G	11/25/2010	11/24/10 A	11/25/10 A	103-004	1000	500	WC-03
	Sales-YY	Cust-04	Product-C	11/25/2010	11/24/10 C	11/25/10 A	106-012	100	100	WC-06
			Product-H	11/26/2010	11/26/10 A	11/26/10 A	103-005	100	100	WC-03
		Cust-05	Product-D	11/25/2010	11/25/10 A	11/25/10 A	106-013	100	100	WC-06
		Cust-06	Product-B	11/25/2010	11/24/10 C	11/25/10 B	107-011	300	150	WC-07
1	Sales-XX	Cust-01	Product-B	11/24/2010	11/23/10 A	11/23/10 A	103-002	100	100	WC-03