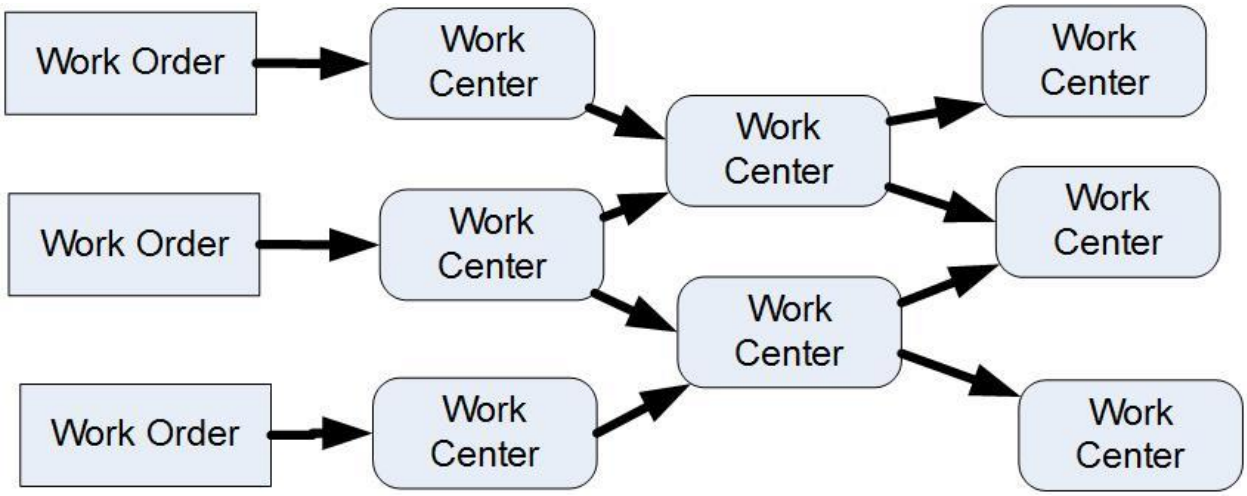
Work Center Scheduling Option User Manual



Work Center Scheduling

The purpose of the BellHawk Work Center Scheduling (WCS) option is to enable operators within a work-center to be able to pick the most important Work Order to work on next, without needing to go ask a manager or supervisor what they should be working on.

SPTS gives production managers the ability to set the wanted date for each Work Order as well as the start date. It also gives the ability to set the importance of each Work Order to values such as “standard” and “rush”, which have been assigned an equivalent numerical importance.

Within their selected work center, operators are able to see a list of Work Order steps/operations waiting to be performed in their work center. These are shown in the order of wanted date and within each completion date, by importance in descending order.

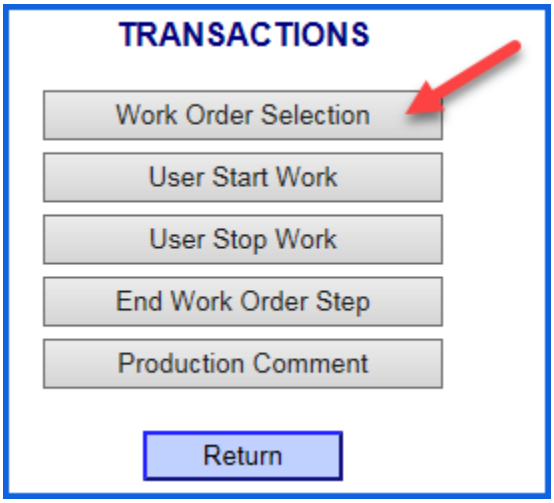
Employees do not have to select the highest Work Order in the list if, for example, a needed machine is not available. But production managers and work-center supervisors are given screens by which to monitor the work queues and to be able to spot “cherry picking” of easier Work Orders and operations.

WCS is especially beneficial when there are many possible Work Orders/operations that can be performed at any one time in a work center. It enables Work Orders to be processed in a rational order to ensure customer orders get out on time and do not get unnecessarily held up at some step in their processing.

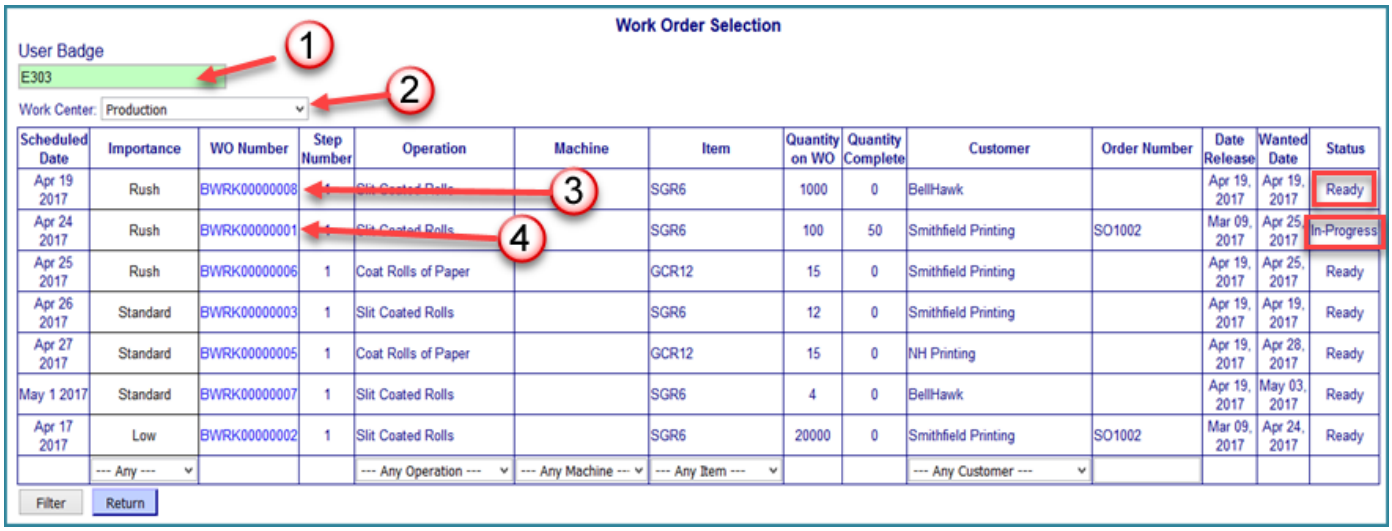
While WCS can be used without needing to do production planning ahead of time, please note that it is intended to complement, and not replace, materials requirements planning or finite capacity scheduling systems or manual planning/scheduling boards. These systems are typically used on a weekly basis to generate a production schedule of what work needs to be done in each work center on a specific day and in what order.

This information can be translated into the wanted dates and Work Order step importance values used by WCS. WCS then handles the scheduling of the Work Orders within each day as Work Orders flow from one operations to another and each operation takes more time or less time than planned or as needed equipment or employees are unexpectedly unavailable.

The work order scheduling screen can be selected from the Work Order Selection screen on the Transactions Switchboard. Note this is only visible if Work Center Scheduling is activated.



This brings up the WCS screen:



Scheduled Date	Importance	WO Number	Step Number	Operation	Machine	Item	Quantity on WO	Quantity Complete	Customer	Order Number	Date Release	Wanted Date	Status
Apr 19 2017	Rush	BWRK00000008	1	Slit Coated Rolls		SGR6	1000	0	BellHawk		Apr 19, 2017	Apr 19, 2017	Ready
Apr 24 2017	Rush	BWRK00000001	1	Slit Coated Rolls		SGR6	100	50	Smithfield Printing	SO1002	Mar 09, 2017	Apr 25, 2017	In-Progress
Apr 25 2017	Rush	BWRK00000006	1	Coat Rolls of Paper		GCR12	15	0	Smithfield Printing		Apr 19, 2017	Apr 25, 2017	Ready
Apr 26 2017	Standard	BWRK00000003	1	Slit Coated Rolls		SGR6	12	0	Smithfield Printing		Apr 19, 2017	Apr 19, 2017	Ready
Apr 27 2017	Standard	BWRK00000005	1	Coat Rolls of Paper		GCR12	15	0	NH Printing		Apr 19, 2017	Apr 28, 2017	Ready
May 1 2017	Standard	BWRK00000007	1	Slit Coated Rolls		SGR6	4	0	BellHawk		Apr 19, 2017	May 03, 2017	Ready
Apr 17 2017	Low	BWRK00000002	1	Slit Coated Rolls		SGR6	20000	0	Smithfield Printing	SO1002	Mar 09, 2017	Apr 24, 2017	Ready
	--- Any ---			--- Any Operation ---	--- Any Machine ---	--- Any Item ---			--- Any Customer ---				

On this screen:

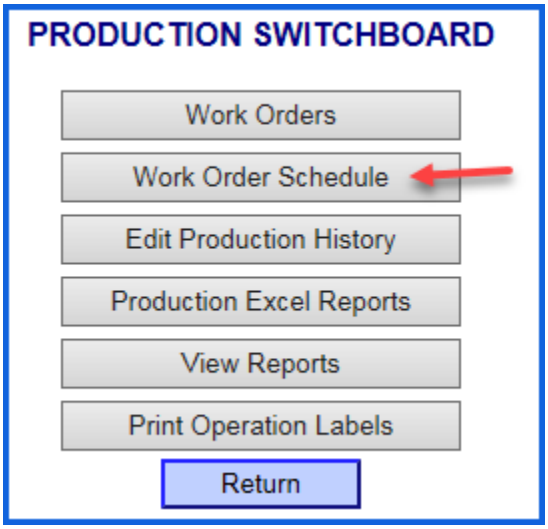
1. The user scans their Badge Barcode (1) and selects the work center (2) in which they are working.

2. The user then selects a work order on which to start work (3). This is normally the top work order in the list but users are free to select any work order, if the recommended highest priority job is not the most appropriate (such as due to a machine being down).

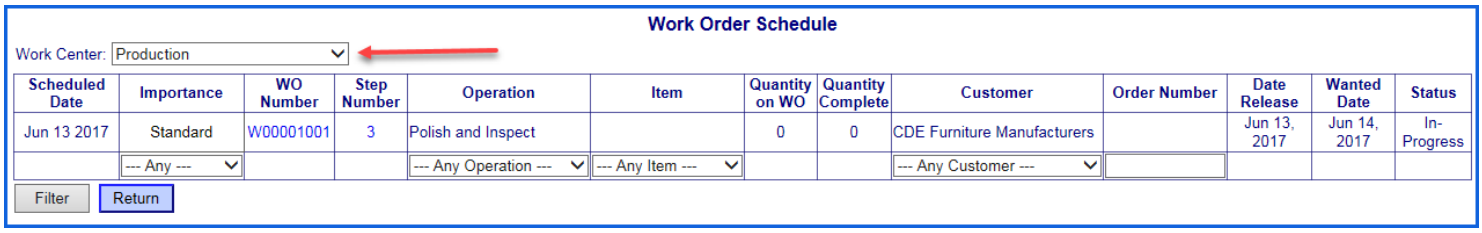
3. If the status of the work order operation is "Ready" then BellHawk records that the work has started on that work order operation and the user is then taken to the start work screen with their user badge number, the work order and step filled in.

4. If the status of the work order operation is "In Progress" then, when the user clicks on this entry, they are taken to the Stop Work screen if they are already working on this work order operation or, if not, they are taken to the Start Work screen to be added to the existing work in progress on the work order operation.

With WCS, there is a Work Order Schedule button on the Production Manager's switchboard:



This brings the manager to a screen on which they can select the work center and see the status of all work orders currently active in that work-center:



Commentary

The Work Center Scheduling (WCS) option provides a simple real-time scheduling algorithm that is based on importance of each work order as well as its start date and wanted date. WCS is designed so that these rules can be customized to include other factors, such as the availability of materials and equipment for each operation.

