



**VISUALQUEUE SHOP FLOOR® IS DESIGNED, BUILT AND DELIVERED WITH LEAN PRINCIPLES AND TECHNIQUES!**

Many manufacturers have already invested heavily in ERP, and various MES and APS shop floor control solutions. Yet few manufacturers have achieved the performance gains they expected. Many of these manufacturers are operating in complex environments with a high mix of products on shared manufacturing assets, while dealing with an uncontrollable supply chain.

The *VisualQueueShopFloor*® lean planning and scheduling software solution is developed with Lean Manufacturing and Six Sigma principles. The *VisualQueueShopFloor*® product bridges the gap between your work order driven ERP application and your often disconnected plant floor. Using *VisualQueueShopFloor*® will enable your organization to experience dramatic, sustainable performance improvements by reducing inventory levels and production cycle times. This increased production throughput will improve overall customer service and customer satisfaction dramatically.

These benefits can be achieved and experienced in a very short time often in as little time as three to four months after go live.

### Product Overview

*VisualQueueShopFloor*® works closely with your existing ERP system by providing a software platform that incorporates lean demand-driven manufacturing technology with advanced shop floor and enterprise optimization lean techniques. *VisualQueueShopFloor*® is the practical common sense plant floor software solution that bridges the gap between your ERP system and the work being performed on the manufacturing plant floor.

The marriage of these two technologies will enable your enterprise to transition and sustain significant performance improvements including reduced inventory, improved cycle times, improved throughput through the factory and improved customer service.

*"We can't solve problems by using the same kind of thinking we used when we created them." - Albert Einstein*

### Emphasis on the Visual Factory

*VisualQueueShopFloor*® puts emphasis on the visual factory utilizing demand pull, Kanbans, Heijunka boxes, and one piece flow.

*VisualQueueShopFloor*® can interface with existing ERP systems to provide a lean production environment while transparently providing the ERP system the manufacturing data required to keep perpetual inventories and costing data accurate.

*VisualQueueShopFloor*® operates on each individual demand and this demand will signal production to begin on a timely basis.

*VisualQueueShopFloor*® makes only what is required. This prevents a buildup of unneeded inventory. Small batch sizes encourage quality since non-conforming or defective work is uncovered quickly before large quantities of inventory are made. Since *VisualQueueShopFloor*® tracks cycle times against the norm, it can quickly alert all interested parties when a problem occurs. Because *VisualQueueShopFloor*® reporting is simple, it is easily kept up to date. This gives everyone associated with the demand a window into where any work is and how close is it to being completed. This information helps customer service keep customers apprised of their order delivery status.

While *VisualQueueShopFloor*® in itself won't increase throughput, it provides the tools to do so. By ordering the demand as it is needed, the plant can run smoothly without having to change the schedule to rush other orders through the production line. *VisualQueueShopFloor*® supports a full lean transformation, is not a roadblock to one piece flow and lean thinking. It is an extension to those principles. By supporting lean thinking and principles, all of the lean benefits can be realized using *VisualQueueShopFloor*®.

Since *VisualQueueShopFloor*® alerts the organization when cycle times are being missed, it is easy to identify when kaizen events are required. The success of these events is quickly measured. When changes in the flow are made, the information about the new flow is entered into *VisualQueueShopFloor*® or pulled from the ERP system. Again, since *VisualQueueShopFloor*® measures the standard cycle time against the real cycle times, the success of changes is easily measured. Learning curves can also be highlighted and measured.

## VisualQueueShopFloor® Payoff

The payoff for *VisualQueueShopFloor®* is measured as part of the entire lean initiative. The payback focuses on the deadly wastes centered around reduced inventory. The other improvements are more incremental, but over time the quality and customer service improvements (by way of reduced lead times) provide even larger returns. Quality improvements alone will typically pay for the system in short order by reducing manufacturing defects resulting in fewer RMA's and happier customers.

Lean consultants will typically fight reducing head counts. They will instead try to reassign any displaced workers and provide cross training along product lines or work cells. The thought process is that lean increases efficiencies and quality which in turn increases demand and throughput ultimately becoming a better measurement of payoff with worker productivity increases.

## VisualQueueShopFloor® Benefits

- Reduced Inventory
- Improved Shop Floor Productivity
- Improved Quality
- Reduced Cycle Times
- Improved Customer Service
- Extends Investment in current system
- Improved Profitability

## About Sabino Creek Software Inc.

Sabino Creek is a software developer and implementer of manufacturing and scheduling software solutions. Sabino Creek was founded in May of 2000 by manufacturing industry veterans seeking to change the paradigm in the way the plant shop floor was being scheduled, executed and supported.

The company was founded on beliefs and values of providing its clients with software advance of technology, free from the traditional headaches surrounding software upgrades, ongoing maintenance, easy to use and deploy applications while taking advantage of the burgeoning Internet and the advancement of lean technologies, lean techniques and lean discipline.

Sabino Creek is a Microsoft® ISV, having developed and deployed hundreds of scheduling applications utilizing the .NET™ platform and toolset.

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## VisualQueueShopFloor® Modules

- Demand Queue
- Heijunka Box
- Interface Gateway
- Shipping Queue
- Picking Queue
- Operator Queue
- Reporting
- Performance Measurements
- Continuous Improvement



## VisualQueueShopFloor® Technology

### Language

*VisualQueueShopFloor®* is written in C# utilizing Visual Studios® 2008 and runs on any Microsoft® platform supporting 3.5 .NET™ framework including Microsoft XP, Vista, and Windows Server 2003.

### Database

*VisualQueueShopFloor®* runs on the database platform MS SQL Server 2005 or later.

### Supported Terminals

*VisualQueueShopFloor®* supports:

- Operator terminals (touch screens)
- Standard bar code readers
- RFID
- Standard Microsoft Workstations.
- PDA / Smart Phone

## Sabino Creek Software Inc.

14350 N. Frank Lloyd Wright Blvd  
Suite 17  
Scottsdale, AZ 85260

Scottsdale AZ 480.889.8950  
Northern CA 510.315.1962  
Central CA 805.277.1890  
Southern CA 310.765.4093

[sales@sabinocreek.com](mailto:sales@sabinocreek.com)  
[www.sabinocreek.com](http://www.sabinocreek.com)

