

Products & Services

Time Wise Management Systems provides training and consulting services, technical platforms and problem solving tools that are relevant and complement supply and value chain management services. Through our many prime OEM and supply chain integration and development projects, we have a demonstrated success in the following areas:

Planning and Development

- In supply chain planning and development activities, TWMS uses different components of the Time Wise Solution® suite of Lean and continual process improvement tools and methodologies in engagements that require combinations of training, consulting, facilitating and implementing point, program, and enterprise assessments, reviews and analyses of supply chain and value chain design, operation and framework structures. This process is also used to align and increase the performance/agility/profitability of supply chains. This work is conducted at the customer's facility as well as select supplier sites as part of an integration or developmental supply chain program by TWMS resources.

Acquisition, Vendor and Inventory Management

- TWMS uses components of the Time Wise Solutions® suite to improve acquisition, vendor and inventory management. The Time Wise Management System® (a holistic approach of training, implementing, monitoring and sustaining) is an engagement whereby the stakeholders of a supply chain "enterprise" access training, consulting, facilitation services to implement point, program, and enterprise assessments, reviews and analyses of how Government agencies, prime OEMs and supply chains acquire/procure products and services and manage vendors and inventory stocks. In addition, the impact of Lean manufacturing principles contributes to improved acquisition, vendor and inventory management programs. This work is conducted at the customer's facility as well as select supplier sites as part of an integration or developmental supply chain program by TWMS resources.

Business Process Reengineering

- TWMS uses components of the Time Wise Solutions® suite to review and analyze how Government agencies, prime OEMs and supply chains operate and can be improved in a profitable and sustainable manner. This work is conducted at the customer's facility as well as select supplier sites as part of an integration or developmental supply chain program by TWMS resources.

- TWMS applies the Time Wise Management System® to improve supply chain alignment, train and correct performance of inadequately performing suppliers, supply networks and supply chain management programs. This work is conducted at the customer's facility as well as select supplier sites as part of an integration or developmental supply chain program by TWMS resources.

Design & Development

- TWMS applies business process reengineering principles of Lean to the design and development of new weapons systems as well as maintenance and refurbishment of existing weapons systems. This work is conducted at the customer's facility as well as select supplier sites as part of an integration or developmental supply chain program by TWMS resources.

Production and Test

- TWMS applies business process reengineering principles of Lean to the production and test of weapons systems as well as maintenance and refurbishment of existing weapons systems using TWMS resources deploying the Time Wise® suite of products.

Improvement and Sustainment

- TWMS applies business process reengineering principles of Lean to the application of process improvement techniques to the production of weapons systems as well as maintenance and refurbishment of existing weapons systems using TWMS resources.

Spares Modeling

- TWMS applies business process reengineering principles of Lean to the application of inventory management such as pull systems and priority setting techniques to the production of weapons systems as well as maintenance and refurbishment of existing weapons systems using TWMS resources deploying the Time Wise® suite of products.

Maintenance Procedures

- TWMS applies business process reengineering principles of Lean to the integration of Total Productive Maintenance techniques to the production of weapons systems as well as maintenance and refurbishment of

existing weapons systems using TWMS resources deploying the Time Wise® suite of products.

Technical Manuals

- TWMS applies business process reengineering principles of Lean to the application of visual systems, quality at the source and pre-engineered problem solving techniques to the production of technical manuals of weapons systems as well as maintenance and refurbishment of existing weapons systems TWMS resources deploying the Time Wise® suite of products.

Depot and Vendor Management

- TWMS applies business process reengineering principles of Lean to the application of inventory management such as pull systems and priority setting techniques to the production of weapons systems as well as maintenance and refurbishment of existing weapons systems through out the supply chain using TWMS resources.

To meet customer requirements TWMS offers an array of Logistics Training Services in of support enterprise transformational planning and implementation. Utilized for federal acquisition and contracting, these services provide the buyer with standard resources in a format that meets operational and educational requirements.

Educating the workforce is the first step toward building a core infrastructure. The Time Wise Solutions® suite is the core of our training curriculum and meets the needs of an organization that is seeks participation in and delivery of high-quality training, on site within an enterprise campus or offsite at a Time Wise Institute®. Each tool and methodology is flexible in design and can be scaled to the requirement of the customer, e.g., number of days or tailored to address particular customer issues and nuances, e.g., varying the emphasis/case studies or teaching/implementation methods. Training services are deployed when needed, and in a manner that works for an organization. Whether the organization requires a short course, a combination of courses over four or five days or a focused “train-the-trainer” course, TWMS has highly trained and seasoned facilitators and world class training materials. Facilitator led training provides continuity and consistent world class tools for supply and value chain management. Training Courses are listed below.

Group Training Courses

Group training courses are offered for all Time Wise Management Systems tools and methodologies. The description that follows is

representative of group participant course for a Time Wise® simulation.

Time Wise® 101,102, 103 Principles of Lean Manufacturing, Time Wise® 104 Supply Chain, Time Wise® 105 Lean Six Sigma and Time Wise® 107 Principles of Lean for Process Industries – Hands-on Experiential Simulations

Each **Time Wise® Lean Manufacturing Simulation (listed above)** is a one day training workshop that teaches the basic tenets for a successful Lean implementation. Our value proposition for teaching Lean principles stresses: 1) training events must be closely connected in time to a service implementation activity; 2) transferring TWMS' experience and best practice to a customer's supply chain/Lean team requires that participants take an active role in the **Time Wise® Lean Manufacturing Simulation** presentations and simulation; and 3) understanding of general Lean Manufacturing principles must form the background for every participant's understanding of how a system works. Each participant is provided a hands-on introduction to the newest interpretations of the principles of Lean Manufacturing, along with the methodology to implement those notions into a modern manufacturing or service environment. Workshop participants function as "virtual employees" of the fictitious Time Wise, Inc. Clock Factory and are able to experience for themselves the impact of such traditional Lean techniques as elimination of waste, improved material flow, 5S workplace organization, cellular flow, value stream mapping and so forth along with some newer concepts such as the benefits of teamwork, assuring quality at the source, inspection and mistake-proofing at the source, the impact of vendor-related activities in an integrated supply chain, and much more. The participation in a Time Wise training workshop provides the prerequisite orientation for all further study and implementation of the principles of Lean Manufacturing. Participants that complete this workshop will receive a certificate of program completion from TWMS. All **Time Wise® Lean Manufacturing Simulation** training modules are based on the proprietary training kit.

- Time Wise® 101 Principles of Lean Manufacturing is an introductory course. Ideal course size is between 15 – 20 participants.
- Time Wise® 102 Principles of Lean Manufacturing for Job Shops is an introductory course for participants that operate in high variety/low volume manufacturing or service environments. Ideal course size is between 18 – 22 participants.
- Time Wise® 103 Principles of Lean Manufacturing (Specific Industry) is an introductory course based on Time Wise 102 and is customized for individual industry or technology sectors. Ideal course size is between 18 – 22 participants.

- Time Wise® 104 for Supply Chains is an introductory course for participants requiring deeper understanding of supply chain operations and Lean Manufacturing. Ideal course size is between 18 – 22 participants.
- Time Wise® 105 Lean Six Sigma is an introductory course for participants to understand how to use Lean and Six Sigma together to eliminate the waste and variation in processes that will have the highest impacts on customers and financial results. Ideal course size is between 15 – 20 participants.
- Time Wise® 107 for Process Industries is an introductory course for participants in companies or organizations that do not manufacture or service discrete products. Ideal course size is between 15 – 20 participants.

TWMS provides three resources to teach each of the aforementioned classes. One person acts as the lead facilitator; the other two resources manage the simulation aspect of the course and facilitate break out discussions.

Focused Train – the – Trainer Courses

Time Wise® 101, 102, 103 Principles of Lean Manufacturing, Time Wise® 104 Supply Chain, Time Wise® 105 Lean Six Sigma and Time Wise® 107 Principles of Lean for Process Industries – Hands-on Experiential Simulations

Customers frequently choose to expand their one day training workshop and participate in a two day “train-the-trainer” version. The first day of the two day “trainer-the-trainer” is the hands-on experiential simulation (described in the previous paragraphs). The second day is more focused on detailed techniques that include how to set-up and instruct the training course, trouble shoot problems, facilitate typical Lean discussions, as well as becoming intimate with the simulation training kit, which is comprised of both durable (reusable) materials and consumable materials.

The ideal course size for “train-the-trainer” courses is smaller than that of the group training course. The reason is that each participant receives more focused attention, mentoring and in-depth training. However, the “train-the-trainer” courses can accommodate the same number of participants if required.

Because there are typically fewer participants in a “train-the-trainer”, TWMS typically provides a minimum of two resources to train the second day of two day train-the-trainer course.

Time Wise® 201- Value Stream Management System

Value Stream Management charts the flow of information and material for a specific product from raw material, through all the manufacturing process steps, and off the loading dock as finished goods. The view is organic and examines the flow, connections, relationships and behaviors from the “customer’s customer” through to the “supplier’s supplier”. This powerful tool also maps the information flow from the customer, through the organization, to and from the supply chain. This is the Value Stream. Participants are trained to create the value stream map the organization’s “current state”, which will graphically identify systemic waste in the process. The second phase of the training is to draft the value stream map of the desired “future state” in order to eliminate or minimize waste, to improve efficiency and throughput, and enhance profitability.

Value Stream Management System training is a two day event and is facilitated by two TWMS resources. A typical breakdown of the two days of training includes:

- Day One – Value Stream Management System overview and familiarization with training kit and materials – approximately four hours.
- Day One – Value Stream Management System creation of an organization’s “current state” value stream map – approximately four hours.
- Day Two – Value Stream Management System continued creation of “current state” map – approximately 2 – 4 hours.
- Day Two – Value Stream Management System creation of an organization’s “future state” value stream map – approximately 4 – 6 hours.

Value Stream Management System incorporates proprietary Lean Enterprise Diagnostic developed exclusively by Time Wise Management Systems and a proprietary Value Stream Management kit complete with training guide, wall maps, analysis tools, work instructions and case studies. The ideal number of participants is between 8 to 10 people.

The service consulting implementation variation of Time Wise 201 is usually identical to the training version; however, there are times where the implementation takes two and one-half days due to the following differences:

- Day One – identical to training scenario.
- Day Two – additional emphasis on development of customer on-site “current state” value stream map prior to development of “future state” value stream map.
- Day Three (one half day) – conclusion of “future state” map

Time Wise® 202- Rapid Improvement (Kaizen) Workshop

Kaizen (“To make better”) events comprise the bridge between the current state and the desirable future state identified in the Time Wise® Value Stream Management System process. They enable an enterprise to accomplish in days what more conventional planning and implementation cycles would have required months to complete. The **Rapid Improvement (Kaizen) Workshop** provides base-line instruction so that an enterprise’s own in-house team can implement change as needed, whenever appropriate, along with providing a standardized set of tools and a detailed ten-step process for conducting successful Kaizen.

For each Kaizen training workshop, between 8 and 10 participants engage on hands-on instruction to learn how to use the Time Wise proprietary Kaizen improvement kit, which contains all instructional materials, forms, check lists, how to guides and analysis tools. Each workshop participant is provided a kit which includes a selection of hardware items (stopwatch, tape measure, markers, calculator, and clipboard) required for conducting specified measurements and other data collection. Each kit also contains proprietary documentation describing what data collection is required to address specific issues, along with instructions for collecting and analyzing data and forms for recording and reporting conclusions and recommendations.

Two TWMS resources train this course. The first day of training is exposure and use of the Kaizen improvement kit how different content is used for particular Kaizen improvement workshops. The second day of training is additional emphasis on deployment techniques and roundtable discussion of the different types of Kaizen workshop that customers execute, such as 5S, cellular flow, plant layout, set-up reduction, and so forth. A minimum of ten people are recommended for this event.

The service consulting implementation variation of Time Wise 202 has noticeable variations when compared to the training version. It is important to note that the training variation is to train people in how to execute a Kaizen improvement workshop. The implementation variation is actually conducting a Kaizen improvement workshop.

Implementation Kaizen workshops range from three to five days in length. The number of days required is based on the complexity of the problem(s) to be solved/corrected. A sample of a four day long implementation of a Kaizen improvement workshop is described below:

- Day One – overview of Kaizen workshop materials, methods, techniques – approximately four hours in length.
- Day One – data collection and on-site problem-solving – approximately four hours in length.
- Day Two and Day Three – continued data collection, on-site problem solving and corrective action development.
- Day Four – conclusion of corrective action development and corrective action implementation.