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We make your company more productive by applying: Lean Engineering, Manufacturing, and Service Processes

Making Productivity Visible to Everyone®

We are about you!®

Agile Construction® Workshop

A construction job site is a very fluid work environment, in a state of constant change, both planned and unplanned. Agile Construction® allows the contractor to rapidly adapt to job site changes in order to complete each project profitably and efficiently. The agility of the contractor at the job site affects the profits.

This workshop focuses on:

- Job visibility and job productivity measurement
- Upfront job planning with the integration of manpower and material
- Job scheduling including visibility and prevention of schedule impacts
- Procurement management including material handling solutions

This two-day workshop will provide an overview of Agile Construction® principles and tools as well as an opportunity to apply these learnings to your current projects.

What will you gain?

The participants will learn how to establish a useful productivity measuring method. They will experience simple methods and tools for scheduling and tracking that can improve visibility and knowledge of their jobs. They will learn how to identify the obstacles and labor waste, which can impact job productivity, and discuss techniques that can improve it by better than 30%.

Two-Day Workshop Topics Include:

- WBS (Work Breakdown Structure)
- WBS usage for planning and scheduling
- JPAC® (Job Productivity Assurance and Control)
- SIS® (Short Interval Scheduling)
- Direct application of the combined concepts to support Project Management by using the principles of Work Environment Management – WEM®

Who will benefit from taking this workshop?

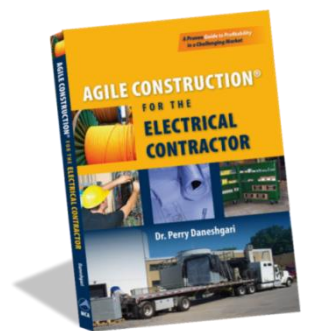
Owners, Executive Managers, Project Managers and Field Supervisors

Date/Time: March 18th, 2020 7:30am – 4:30 pm
March 19th, 2020 7:00am – 3:00pm

Location: Atlanta, GA **Price:** \$1,540 (AECA members only: \$700 /person)

Class Requirements: Agile Construction® for the Electrical Contractor book – will be provided

To register, please email: Tracy Palmer at palmer@atlantaelectrical.org or call (770) 454 6400



Agile Construction® Topic Descriptions

Work Breakdown Structure – WBS (Overview of principles)

The “Brain” of Project Leading to Visible, Measurable and Profitable Project Deliverables

The most profitable and productive projects are a result of effective project planning. A solid WBS (Work Breakdown Structure) is imperative to lay the proper foundation.

The complexities of construction require a robust process to manage the job in a proactive manner. WBS is a tracking method and process tailored exactly to the need of construction by decomposing a project to the level that:

- **Work** is fully identified throughout the whole project lifecycle
- **Breakdown** of high-level project objectives shows as scalable segments
- **Structure** of all the work segments is organized in a hierarchical view

A WBS is thought to be a list of working tasks, created solely by the project manager and estimator to plan high-level project objectives. It is impossible to control risks in construction because projects seldom proceed as planned. However, in reality, a WBS should involve all the project participants. More effective planning involves breaking down work from the field’s perspective. Field productivity cannot be improved without a correct measuring mechanism. Creating a WBS turns out to be such a valid mechanism not only because it helps hit what needs to be done, but more importantly it allows us to:

- Make the work visible to everyone – share the field installers’ insight about what needs to be done
- Track the work in measurable segments
- Reduce risks, waste and errors by separating value transfer and non-value transfer of work.
- Improve accuracy of scheduling and future estimating
- Promote industrialization of construction by identifying opportunities for prefabrication and vendor managed inventory

A fully developed WBS cannot be achieved overnight. It is a journey that requires systematic training and implementation in real practice. WBS is a part of project management. With WBS, managing a project can be much easier, manageable and rewarding.

Job Productivity Assurance and Control (JPAC®): (Overview of principles)

Job productivity has historically been measured from the accounting perspective. This method of measurement has alienated the labor; as a result the outcome is data that is not useful. This course will teach the principles, exercised successfully by other industries, of measuring productivity from the operator’s point of view. The participant will learn how to establish a useful productivity measuring method. This will help them to improve productivity by making it more visible.

Short Interval Scheduling (SIS®): (Overview of principles)

Labor management is the highest risk in contracting. Most of the issues that labor faces in their daily work are hidden from management. With 3-day planning and scheduling all these issues can be made visible and project management and management of the company can improve current and future job productivity. The participants will learn hands-on, the simple methods and tools that can be used to schedule their jobs, and how to identify the obstacles and reduce labor waste which can improve job productivity by better than 30%.

Direct application of the combined concepts to support Project Management by using the principles of Work Environment Management – WEM® (Overview of principles)

This workshop is designed to provide an understanding of how to design and implement the Work Environment Management to support your project management. As the jobs get larger, only contractors that can improve productivity through better management of time, cost and quality will survive.

By connecting the WBS usage and job tracking, this workshop will give you an introduction of the full Work Environment Management (WEM®) to enable you to:

- Have a structured project planning including Agile Procurement® planning
- Connect the more accurate reporting of %-complete to your project billing
- Achieve more stable money flow and earlier cash-positive projects
- Accurately document project progress and reasons for delays to allow for data-driven and correct job tracking that is easy to understand, which can make the impact of the GC schedule variation visible to everyone.

In addition, this workshop also addresses the key steps for effectively implementing pre-fabrication as an integral part of the productivity management system and providing participants with MCA's latest research on construction productivity to help them understand how to apply the principles to bring significant improvements in profitability to their company.

The MCA, Inc. Team

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For more information on Agile Construction® class, workshops, dates and locations visit:

<https://mca-soft.com/classes/>