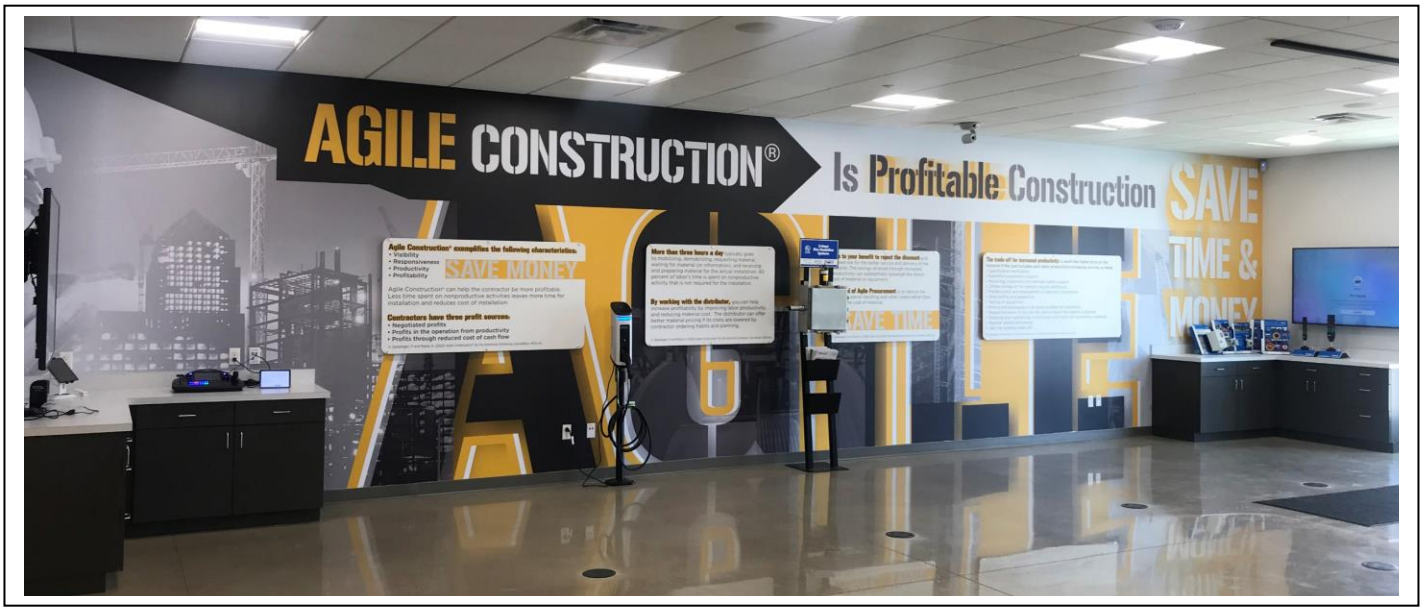
We are about you!®

MCA Inc. and Crescent Electric Supply Company join forces for a special two-day Agile Construction® 101 Workshop, and you are invited to attend!



Wednesday, May 8th:

- ***8:00am – 12:00pm CT:*** Work Breakdown Structure (WBS)
- ***12:30pm – 4:00pm CT:*** Job Productivity Assurance and Control (JPAC®)

Thursday, May 9th:

- ***8:00am – 11:30pm CT:*** Short Interval Scheduling (SIS®)
- ***12:00pm – 3:00pm CT:*** Externalizing Work® through Prefabrication & Agile Procurement

Location: Crescent Electric Supply Company - Racine Distribution Center, 2525 Enterprise Drive, Sturtevant, Wisconsin 53177-8101

Online Registration: Click here! or call (810) 232-9797

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 with industry professionals.

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:

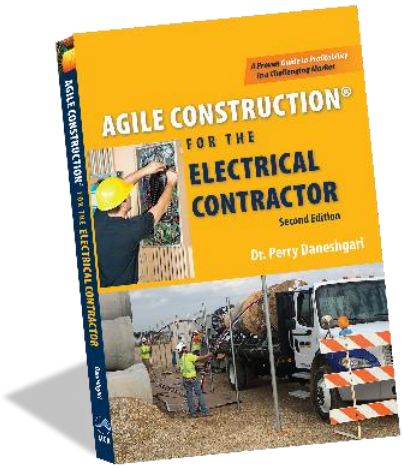
- Job visibility and job productivity measurement
- Upfront job planning with the integration of manpower and material
- Job scheduling including visibility and prevention of schedule impacts
- Procurement management including material handling solutions

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)
- Externalizing Work® through Prefabrication & Agile Procurement®



Who will benefit from taking this workshop?

Owners, Executive Managers, Project Managers and Field Supervisors

Class Requirements: Agile Construction® for the Electrical Contractor, Second Edition $79.00 + s/h Click here.

Agile Construction® Topic Descriptions

Work Breakdown Structure – WBS (Overview of principles)

The "Brain" of the Project Leading to Visible, Measurable and Profitable Project Deliverables

The most profitable and productive projects are the 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:

- **W**ork is fully identified throughout the whole project lifecycle
- **B**reakdown of high-level project objectives shows as scalable segments
- **S**tructure 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%.

Externalizing Work® through Prefabrication and Agile Procurement® 101: Overview of risk, impact of material handling and definition of Externalizing Work® - (Overview of principles)

This workshop is designed to provide an understanding of how to design and implement a pre-fabrication process as part of an overall strategy to develop an Optimal Electrical Construction Business Model. As the jobs get larger, only contractors that can improve productivity through better management of time cost and quality will survive. Pre-fabrication, along with vendor partnership and job productivity tracking, are key tools for optimizing the delivery time, cost and quality of large jobs. This workshop addresses the key steps in effectively implementing pre-fabrication as an integral part of the productivity management system by providing participants with MCA's latest research on construction productivity and helping them understand how to apply the principles to bring dramatic improvements in profitability to their company.

Agile Procurement®:

This intensive working session is designed to establish the basis for the partnership between the electrical contractor and their distributor partner. The vendor partnership approach has demonstrated significant cost savings for both partners when they understand each other's issues and work together to find solutions. Up to now, because of the typical adversarial relationships, the hidden costs and the other effects of direct purchasing have not been clearly defined. By reducing the costs associated with procurement, electrical contractors and their distributor partners will be able to outperform their competition and dramatically increase profits.

Topics include:

- Research on productivity in electrical construction
- Factors for optimizing labor productivity
- Prefabrication: what it is and what it is not
- Planning and layout for large projects, including how to identify opportunities to Externalize Work®
- Project Management and Organizational Principles to support prefabrication
- Implementation planning, including setting up the prefab operation

Participants completing the workshop will:

- Understand the state of prefab in construction today
- Gain insight on their organization vs. the Optimal Construction Business Model
- Identify key action steps needed for implementing an effective prefabrication process

The MCA, Inc. Team
www.mca.net