

## Productivity Improvement in Construction Projects

### A One-Day Workshop

One Gold Seal Credit

#### **Purpose:**

This workshop was originally designed and tailored to meet specific training needs as identified by an Ontario-based client of ours. The purpose of this workshop is to train the participants on (a) productivity principles, (b) productivity in construction, (c) lean principles and waste identification (d) the application of lean in construction projects, (e) productivity drivers and deterrents, (f) productivity and movements on construction sites, (g) planning for productivity, (h) productive execution of project plans, (i) benchmarking productivity and continuous improvement.

#### **Objectives:**

By taking this workshop, the participants will be able to

- Understand the concept of productivity and its competitive effect in construction projects
- Learn what causes and what hinders productivity in construction activity
- Be sensitive to spotting and eliminating wasteful activity and improve productivity on the go
- Track, evaluate and modify non-value-adding movements of on jobsites
- Appreciate how productivity could be incorporated in project plans and how one could help
- Become familiar with the metrics used to measure productivity for incremental improvement

#### **Outline:**

##### Setting the Stage

*Why we are here, who cares and so what?  
Basic definitions and construction project lifespan*

##### Productivity Principles

*What is productivity?  
Labour and Multi-factor Productivity*

##### Productivity in Construction

*What do We Mean?  
What is So Specific about Construction Projects?*

##### Lean Principles and Waste Classification

*Lean, Value, Flow for Progressive Organizations  
Classification of Wasteful Activity*

##### The Application of Lean in Construction Projects

*Identifying Wasteful Activity  
Eliminating Wasteful Activity*

# P L A N T E K

Productivity Consulting Inc.

Operational Efficiency ♦ Industrial Engineering ♦ Project Management

## Productivity Drivers and Deterrents

*With the new knowledge in mind, how could productivity be improved?  
The Role of Communication and Flow of Information*

## Productivity and Movements on Construction Sites

*Best Practices and Examples of Site Material Handling  
People and Information Movements on jobsites*

## Planning for Productivity

*Incorporating Material Handling in Construction Project Plans  
Attention to Critical Activities and Resource-load Levelling*

## Productive Execution of Construction Project Plans

*Identifying and Resolving Productivity Issues On the Go  
Streamlining Creative Ideas of Site Personnel*

## Benchmarking Productivity and Continuous Improvement

*Common Productivity Metrics Used in Construction Projects  
Gaining Competitive Advantage through Continuous Improvement of Productivity*

### **The Facilitator:**

Brian Amouzegar is the founder and president of Plantek Productivity Consulting Inc. A “capacity building” catalyst, Plantek provides world-class consulting and training to improve operational efficiencies, enhance quality of products and services, and implement the most effective management practices. Brian holds a bachelor degree in industrial accounting, a master degree in industrial engineering and is pursuing his doctoral studies in engineering management. He is a senior member of the American Society for Quality, an ASQ certified Quality Engineer (CQE), Six-sigma Black Belt (SSBB) as well as a Project Management Professional (PMP). As a scholar-practitioner, Brian has a lifelong passion for education and teaches graduate and undergraduate courses in his area of expertise. He is an adjunct faculty with BCIT, New York Institute of Technology and University Canada West. Brian’s international project experience spans over North America, Asia, Europe, and the Middle East.



### **Check out our other Gold Seal accredited courses**

[Managing Small Projects \(2 credits\)](#)  
[Managing Construction Risk \(2 credits\)](#)  
[Optimal Project Scheduling \(2 credits\)](#)

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