



SSD GLOBAL SOLUTIONS

Leaner Six Sigma™

Process – We Make Lean Six Sigma *Leaner*TM

- We Take an Individualized Employee Approach that Involves:
 - Phase I Training (Overview and Big Picture)
 - Phase II Exercises and Testing to Ensure the Employee Understands the Principals
 - Phase III Students are Assigned to a Personal Mentor to Complete a Project with Definitive and Articulated Return on Investments. Quick examples:
 - Collective ROI Tennessee Valley Authority: 16.5 Million
 - Collective ROI Southern California Edison : 25 .3 Million
- The Format of Our Program is Adjustable
 - Instruction can be individualized, small group (5 employee) through large groups of 30 employees
 - Programs can be layered and taken in increments
- Our Financial Compensation is Flexible and Accommodates Any Budget
 - Most Common : Per Student price – larger classes result in a lower per student price
 - Percentage of your ROI – What You Saved, Made or Avoided Spending



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Summary of Student Projects in Related Areas

Our System Works with Any Department or Industry – However this Presentation Focuses on the Most Relevant Examples to You!

The Following Examples Include ROI, Financial Arrangement with SSD Global via Project Performed by our Students:

Kimura Foundry America – Indiana (US)

Boyne Smelter Limited – Boyne Island, Queensland (Australia)

LaFarge - Exshaw, Alberta (Canada)

Kimura Foundry America – US Indiana

- 9 Students participated in our *Leaner™* program
- Issue: Delivery of Raw Casting took 7-8 days. The goal was to reduce that to 5 days.
- Three students of the class worked together to recommend 3 Solutions after analysis:
 - Testing on MAGMASOFT and perform simulations –
 - Installation of a larger furnace
 - Installation of an in-house lab to provide non-destructive test to guarantee quality casting
 - Several smaller issues also contributed - students created projects after the training to address these issues independently using the tools learned in *Leaner™*
- Initial Financial Investment with SSD Global Solutions: \$25,000 US
- ROI on the implementation of MAGMASOFT which significantly help identify and reduce metal casting defects: 1.2 million US annualized. ROI on larger furnace: Resulted in 2 Million US in new busines; ROI on in-house lab on going but estimated at .5 million US in detection savings.

Boyne Smelters Limited (BSL)

- 15 students participated in our *Leaner™* Program
- Issue: Multiple including safety benchmarks, pollution concerns, perception of acidity of soils and wildlife impact and sustainability concerns.
- Students worked in groups of three to gather information and current data on different projects. It was determined the most important issue was how to sustainable and how to lower power costs.
- Basic solution involved a partnership with Alcoa Australia who had a similar concern about the cost of power and a strategy was developed using *Leaner™*. The result is an active collaborative team who are working on volatility and grid reliability issues.
- Initial Financial Investment with SSD Global Solutions: \$32,000 US
- Benefit of collaborative effort of partnership is still being determined and introduced, however the ancillary projects identified in class resulted in \$300,000 with on-going benefits. Ancillary benefits also include a better public view of the operations.

LaFarge Exshaw, Alberta (Canada)

- To date, 240 employees of LaFarge in various locations have participated in our *Leaner™* program. This includes 176 employees participating in an Introduction to our program, *Leaner™* to learn how to simplify charts and graphs. Multiple projects have been completed
- Largest issue requiring a team of 10 students: Several of the cyclones required patching at \$75,000 US per year at one of the plants
- Solution required extreme analytics and simulations of various linings. Eventually a vendor was selected which proving an annual savings of \$25-27K per cyclone.
- Initial financial investment for this project with SSD Global Solutions was \$28,000

Advantages of the *Leaner*[™] Program

- *Leaner*[™] is based on collaborative education where the employee as well as the team work together to form solutions based on a set of easy-to-understand critical –thinking models and problem –solving tools.
- Investment in our program can start by sending as little as 5 key individuals to training.
- Specific and documented ROI is accomplished in less than 6 months and generally 3-6 months
- Students work with a mentor who helps them work through the first project using the simplified tools and concepts. However, the information, templates and methods can be easily applied to future projects.
- We offer train the trainer models where you can develop your own trainers



MAKE LEAN *LEANER*TM

The Next Step in Your Journey!

Not Ready to Commit? Send Someone to Try it Out at a Discounted Rate!

- Next Lean Six Sigma Online Public Workshop:
 - The November 16, 2020 workshop is the complete workshop that accommodates: Yellow Belt (2 day) LSS Green Belt Only (3-day) LSS Green Belt/Black Belt Combo (5-day) and LSS Black Belt/Master Black Belt Combo (5 day).

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