

## **Abstract**

Applying Six Sigma™ to Environmental Management System Design

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There is currently very little literature available that describes a defined method for designing an EMS. The thesis hypothesis was that the Six Sigma™ method could be applied to EMS design. The Six Sigma™ method was chosen because it has been successfully implemented in many large corporations in order to improve the quality of products and business processes.

Six Sigma™ provides a defined and structured method that allows a problem or opportunity to be defined, measured, analyzed, improved, and controlled. This results in a method that can be used over and over again to design or improve an EMS. This is a concept that not been thoroughly developed in EMS literature to date. However, it is the structured process of Six Sigma™ itself that is probably more beneficial in EMS design as opposed to focusing on which tools are used during the *DMAIC* process.