

Title	Case Study Implementation of an Intervention to Improve Instruction of Lean Six Sigma in a Statistical Quality Control Course
Author	Theodore T. Allen Anthony Afful-Dadzie Shih-Hsien Tseng
Abstract	Both industrial and higher education of lean six sigma techniques typically involve real world case studies and a requirement for proving that a significant amount of money is saved. Yet, there is still a need to teach quality technology “toolbox” courses. Instructors of these courses may desire students to perform lean six sigma problem solving methods and project work without the time and coordination required for completing an important real world project. This article includes a sample project to help the students develop their own class projects. Providing this sample was itself an intervention in our course and we offer a student outcomes assessment of an average increase in a quality measure based on a blind random sampling evaluation of projects done before and after the intervention.
Keywords	Lean Six Sigma; Define-Measure-Analyze-Improve-Control (DMAIC); Control Charting; Cause and Effect Matrices; Pareto Charts, Standard Operating Procedure (SOP)