The 5S Classroom

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Part I: Overview of Business • John Deere Dubuque Works • Founded by John Deere in 1937 • John Deere has left an impact on American History with the steel plow • John Deere Dubuque works was constructed in 1947 to meet equipment demands. Now the plant is home to Skidsteers, crawlers, backhoes and forestry equipment.	Part II: Job Specifics •John Deere Dubuque Works is continually updating their assembly lines to accommodate new models and modern manufacturing processes. There is a team of manufacturing engineers, called the factory master plan team, to design solutions for the changes required. •The job requires engineers to design assembly processes that meet 5S standards for both old and new processes. 5S solutions require everything from spacing, labeling, ergonomics, safety, and color identification. Job requires heavy amount of organization and long term project planning.
Part III: Introduce the Problem •Students start out as small teams of engineers. •Teams are given the task of making the work environment (engineering classroom) meet 5S methodology. •Teams will compile their ideas and present to class.	Part IV: Background •Japanese 5S manufacturing structure. Seiri (Sort), Seiton (Set in Order), Seiso (Shine), Seiketsu (Standardize), and Shitsuke (Stustain). •Engineering notebook documenting structure.
Part V: Business Solution •The factory master plan team has recently put together a presentation for the John Deere Dubuque Works leadership. Team presented solutions and progress while leadership asked questions and gave feedback.	Part VI: Student Solutions Solutions I will be looking for: -Student solutions will demonstrate common strategies that will resemble what they would see in the work place. -Students discovering ways to make engineering classroom safe. -Students discover solutions and reasonings for keeping a clean and organized classroom