Course Setup and DFSS Process Script

Welcome to this video on the course setup and design process. We'll be using it any 270. The design process is commonly referred to as the design for Six Sigma process or DFSS. Throughout the course you'll be working in student design teams to design build and test the functional prototype in order to do that. Your design team will utilize the DMADVR tool in the application of the design for six sigma process. The course DMADVR toolbox contains worksheets and templates to guide students. Your student teams will need to use so that you can go through the DFSS process during the semester. So for the semester there'll be different tools that you will be applying as you move through each of these phases and the teachers and instructors will show you where that DMADVR toolbox is. To help guide the

Design for Six Sigma process. It's simply a process that starts with the definition of a problem and ends the reporting of the findings or reporting of the journey throughout the semester. So we'll take a look at the DFSS process for that. And then you'll define the problem. We'll do some measuring of customer

requirements, then analyze data and also select a final design, and then start designing that and then verify that through some testing, verifying some performance and then writing a team report. But also having a team presentation. So it’s Define, Measure, Analyze, Design, Verify and Report out. The DMADVR tools that are included within the design of Six Sigma process. There'll be more information on this also later. So this course is the classroom or a hybrid classroom. And what that means is that we are

expected to complete the online module in Canvas where your content is and that's available to you

24/7. So the online modules have associate quizzes that must be completed per the Canvas calendar and the Canvas syllabus. So that's two ways. So in Canvas there is a calendar where all the details are in

there for your assignments and various other events. And also the canvas syllabus also shows all the due dates, as well as chronological order in Canvas. Now the online learning modules are to be completed before we start quizzes and assignments. So they're a precursor preparation for students to complete. So modules and the associate quizzes are our preparation method for students to be prepared to work in their team so that everybody is working from the same learning content and they're able to apply

learning concepts while they're working on team-based assignments. And those keys for team assignments are DMADVR tools I spoke of earlier. And your TAs and instructors are happy to help you with those assignments. So the majority of course is team-based assignments. The team-based assignments are part the major DFSS phases. And that would be the same industry essentially, you're going through phases you're completing phase with getting to the next phase of the design process. So your design projects have a definite start and definite completion. And you'll also have a few individual

assignments included along the way. One of those is the peer review. This video refers to here. So peer reviews are going to be completed. Those are also to be completed on time. Those are to support and encourage student professional development. We would also do peer review in an industrial setting as well. I myself have done many of them, a common process, peer assessment. It's common in a professional setting. The individual and team engagement though in this course is very important. So attending meetings whether they're in class or online. Very important. Success Factors are to be engaged, ask questions when you need to ask questions. We're happy to answer questions for you so that you're successful in completing the assignments. Also that you learn the importance of time management, using your skills and abilities within the team successfully design build and test your functional prototype so they can learn about the process. This problem is very much connected to the senior capstone where it will also be using the same process. And then you will be in industrial settings, even if you don't use this entire process, you will at least see a lot of these tools again in an

internship or in your professional environment. I look forward to meeting all of you. And I hope

that you had a fun break. I hope that you will learn about the design process and take that with you into your next adventures. And I would say it's a very important professional development journey that you're going to have in this class. The DFSS process is a process that contains the main phases which we call phase gates. Gates that need to be gone through for manufacturing to begin and that will be the success the flow of the course and of a design process and an industry. A lot of the documentation. Documentation is for each of these phases so that in case you would need that in the future when somebody needs to look at before a new project or unfortunately some time in cases of product failures. These tools that you're going to use are often used as documents kept for the design process. So welcome 270. And I look forward to meeting all of you.