

Rethinking Redesign to Enhance Course Engagement

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Engineering Management and Systems Engineering

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Courses

- EMgt 4710 Quality
 - -46 Fall 2015
 - 42 Spring 2016
- EMgt 5710 Six Sigma
 - 18 campus, 10 distance Fall 2015
- EMgt 6710 Design for Six Sigma
 - 16 campus, 7 distance Spring 2016



Course Framework

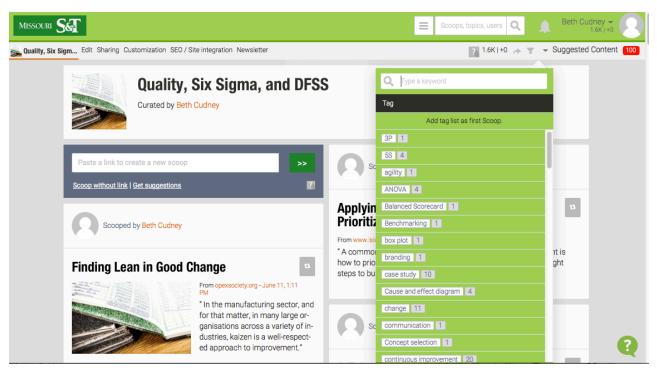
EMgt 4710: Quality Course Schedule Spring 2016

Date	Topic	Reading	Scoop.It Topics*	Ted.Ed Videos	Homework Due
Jan. 19	Introduction - Course Overview, Grading, Semester Project		SS Case Study	What is quality and continuous improvement?	
Jan. 21	Six Sigma and Organizational Goals	Ch. 1	Belts, Change, Continuous Improvement, Deployment, Leadership, Quality, Quality Gurus	Introduction to Six Sigma	HW#1
Jan. 26	Lean Principles in the Organization	Ch. 2	Flow, Gemba, Jidoka, Lean, Kaizen, OEE, Poke Yoke, Pull, SMED, Supply Chain, Waste, Value Stream Mapping, Visual Management, 5S	Reducing Changeover Time with SMED	
	DEFINE PHASE				
Jan. 28	Design for Six Sigma Methodologies Define – Project Identification Define – Voice of the Customer	Ch. 3 Ch. 4 Ch. 5	Customer, DFSS, DFSS Case Study, Project Selection, Voice of the Customer		HW#2
Feb. 2	Define -Project Management Basics	Ch. 6	Project Charter, Project Management	<u>Is your process</u> <u>capable?</u>	
Feb. 4	Define -Management and Planning Tools	Ch. 7	Balanced Scorecard, Benchmarking, Cause and Effect Diagram, Cost of Poor Quality, FMEA, PDCA, Process Flow Diagram, SIPOC, SS Case Study, Survey, SWOT, Taguchi Loss Function	Will your process fail? Using FMEA	HW#3
Feb. 9	Define -Management and Planning Tools	Ch. 7			
Feb. 11	Define –Business Results for Projects Define –Team Dynamics and Performance	Ch. 8 Ch. 9	Communication, Culture, Decision- making, Teams	Teaming and Decision- Making	HW#4



Scoop.It

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TED.Ed Lessons

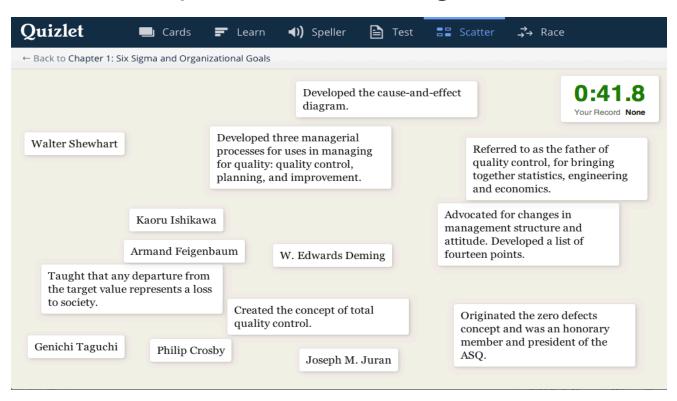
Educational website create or share lessons





Quizlet

Website that provides learning tools





Thank you!