

TECH 646 Analysis of Research in Industry & Technology

Assignment 6

Assigned date: Friday, September 28, 2018

Due date: Thursday, Oct. 4, 2018

PART 1. Study Chapters 1 to 7 and prepare for the scheduled Exam 1 on Oct. 4, from 6:00PM to 6:40PM. (Multiple choice questions)

PART 2. Qualitative and Quantitative Research Design

This assignment requires that your team to continue on proposed research project entitled: "Measuring and Maintaining the Concentration of a Water-Soluble Process Coolant."

The planned activities for this week should focus on the following:

- Minutes of our meeting on Sept. 27 that highlights the needed items and discussion during class meeting related to the proposed project
- Qualitative research design – data collection
 - Expert interview on process quality inspection process
 - Detailed description on process and quality inspection details
 - Focus group for gathering inputs on process improvement
 - Partner and customer interview (survey)
- Quantitative research design
 - Define variables for the research questions
 - Design cause-effect relationship diagrams with all IV, DV, IVV, etc