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College of Engineering_GEE 230 Introduction to Engineering Leadership and Management_Group Team Project

Dana N. Humphrey

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Robin Delcourt <umprovost@maine.edu>

Pandemic

Dana Humphrey <danah@maine.edu>

Fri, Apr 24, 2020 at 11:15 AM

To: UMaine Provost <umprovost@maine.edu>

Faye,

The group project for the two sections of the course that I teach, GEE 230 Introduction to Engineering Leadership and Management (1 cr.), focused on plans for manufacturing productive equipment and respirators. Please see the attached for the assignment.

Best wishes,
Dana

Dana N. Humphrey, Ph.D., P.E.
Dean of Engineering
Kenneth Warren Saunders and Henry W. Saunders
Professor of Engineering Leadership and Management
University of Maine
5796 AMC Building, Room 200
Orono, ME 04469-5796
Phone: 207-581-2217
email: danah@maine.edu



GROUP PROJECT - S'2020(S2) - REVISED.pdf

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GEE 230 – GROUP PROJECT
--- REAL TEAMWORK ---
Spring, 2020
Section 2

Solution space:

You work for a large manufacturing firm with a wide range of design and production capabilities. Moreover, your firm has strong relationships with a wide array of material suppliers and specialty subcontractors. The CEO of your company is greatly concerned with the dire shortages of personal protective equipment (e.g., N95 masks, protective gowns, face shields, gloves), hand sanitizer, respirators, and more that has been caused by the COVID-19 outbreak with potentially deadly consequences to medical professionals, patients, and the general public. Moreover, COVID-19 has resulted in a decrease in demand for the company's normal product lines, leaving the firm with unused design and production capacity. The CEO has asked your team to develop and execute (i.e., be in charge of overseeing and implementing) an emergency plan to produce and distribute one or more of the most critical items that are in short supply as a result of COVID-19. ~~The company must at least break even on the design, production, and distribution costs of whatever item(s) your group selects to produce.~~

Assignment:

Determine what critical item(s) the company should produce ~~along with rationale on why they were selected~~ and develop an overall framework for design, production, and distribution of those item(s). All of this should be organized under the structure of the five basics of a real team. Thus, your oral and written report should have five sections, one for each of the five basics of real teams. There can be no other sections of your oral and written report, thus everything you want to say must fit under one of the five headings.

Notes:

1. Do not prepare a detailed plan with all the individual steps needed to design, produce, and distribute the item(s) you've selected. Rather, you need to present the overall structure that identifies all the critical functions and who among the members of your team would be responsible for those functions.
2. It is OK for a group member to be responsible for more than one function, provided those functions are distributed in a rational manner. For example, you don't want one person to be in charge of two functions that will be at their most critical point at the same time.
3. Take into account the real skills that the members of your group bring to this problem when assigning functions. For needed skills that are not present among the members of your team, make assignments based on who is most likely to be able to learn the skill.
4. Collaborate with your team members using what ever technological solutions you are most comfortable with.

Deliverables:

1. 10 minute oral report given via a Zoom meeting during your normal class time on April 20, 2020. All members of your team must have a speaking role in this presentation. I will be sending you a Zoom invitation.
2. Typed report, no more than two pages in length. The report should have five sections, one for each of the basics of real teams. Please clearly list your team name and the members of the team at the top of the report. If there are team members who did not participate, please note this. The report should be submitted to me via email (danah@maine.edu) no later than 5 PM on April 27, 2020.

Level of Effort Expected:

You should expect to spend about two hours working virtually as a group to develop your overall framework and your oral presentation. On April 20, 2020 you will give the oral presentation. It should then take your group about an hour to prepare the 2 page max. written report.

Grading:

Your team's grade will be based on: (1) oral report (25%) and (2) written report (75%). In both you must demonstrate how you met the five basics of a real team. All members of the team will get the same grade. Overall, the group project comprises 20% of your class grade.

Team Assignments:

Team Alpha	Team Beta	Team Gamma	Team Delta	Team Epsilon
Baker, McKenna Jean	Dixon, Elliot	Hosford, Eliza	Monahan, Kenzie Rose	Sheets, Jodie
Camire, Summer Anne	Elder, Kevin	Hunter, Michael	Ouellette, Hayden T	Trask, Jacob Ryan
Chern, Lara	Felker, Brandon	Lamphear, Wes E	Paradis, Alex	Tweed, Blair S
Connelly, Katie Young	Ferrarese, Steven	Mazzucco, Molly R	Rogers, Kirstie	White, Steven Lloyd
Croft, Michael Patrick	Gervais, Olivia	McKenna, Farrow J	Segal, Jake A	York, Mitchell R
Damboise, Olivia R	Gregory, Jordan M	Merchant, Erin N	Shea, Maeve Maureen	