#### **Assignment L3-C**

#### **Artifact Selection**

Now that you have generated a rich set of possible artifacts, the important project constraints (**musts**), and team desires (**wants**) the team must now select and obtain its artifact.

##### **The Assignment**

Your specific assignment is as follows:

1. Create a **KTDA** table using the artifacts, constraints, and desires from assignment L3b.

**Note**: if, after you apply the constraints, there are fewer than **three** feasible[[1]](#footnote-0) artifacts left, go back to your prioritized list of artifacts and find some additional feasible artifacts so that you apply your desires (**wants**) to at least three feasible artifacts.

1. For the top few artifacts in the KTDA table, develop the Adverse Consequences Table.
2. Prepare a detailed **cost estimate** for the top two artifacts in the KTDA table. This cost estimate should include costs of time, materials, tools and any other additional expenditure needed for implementation.
3. Based on the results in the KTDA and Adverse Consequences Tables select the team’s artifact.
4. Obtain your artifact (see L3b for more information about this task).

##### **The Work In The Notebook**

Again, as you do this work, develop the work using the presentation sandwich. We (the Laboratory Instructors, your customers) are **NOT LOOKING** for a report; rather we are looking in your Design Notebook for an organized presentation of your work. **The work need not be word-processed** but it must be neat and readable. Word processing everything is not a way to exceed expectations. It is expected that at least part of all your discussions will be a reflection back on the process that was undertaken in doing the completed task.

Much of this work will be done as a team during a team meeting. It is important to not lose the discussion that takes place as the team creates the various tables and finally arrives at its final decision. It is expected that there will be more than just the final tables in the notebook; **the important parts of the team discussion that lead to the values in the table are expected to also be present**.

Don’t forget to include evidence that you are functioning as a team (team meeting agendas, minutes, etc.)

##### **The Assessment**

The work will be Self and Peer assessed using the Third Notebook Checklist.

1. Feasible artifacts are artifacts that satisfy all the constraints (**musts**) [↑](#footnote-ref-0)