

MILESTONE 1 (STAGE 1) – PRE-PROJECT ASSIGNMENT

Team Number: Thurs-03

Complete this worksheet individually before coming to Design Studio 7.

1. List out objectives, constraints, and functions in the space below
 - Be sure include your Name and MacID
 - Each objective/constraint/function should be typed out as a separate bullet

Name: Kartik Chaudhari	MacID: chaudk4
<p><i>Objectives</i></p> <ul style="list-style-type: none">• Quick and successful equipment transfer• Enable the surgical equipment to be easily sterilised.• To pass the container to the autoclave using a robotic arm• Instruments should be kept in place safely during transport.• Simple insertion of surgical tools• Rigid enough not to hurt the tools during transport• Reduces interaction with sensitive instrument (scalpel blade) materials <p><i>Constraints</i></p> <ul style="list-style-type: none">• Good enough to endure pressure from the arm• The dimension is ideal for operating.• Does not lose the machinery during movement• Places the equipment in the right position and orientation <p><i>Functions</i></p> <ul style="list-style-type: none">• Sterilize the surgical equipment• Allowing accurate motions• Classify the surgical instruments according to colors• Enable motion in all dimensions• Enables the carriage of equipment	

At the beginning of Design Studio, we will be asking that you copy-and-paste the above list into **Milestone One Team Worksheets**. It does seem redundant, but there are valid reasons for this:

- Each team member needs to submit their list of objectives, constraints and functions with the **Milestone One Individual Worksheets** document so that it can be *graded*
- Compiling your individual work into this **Milestone One Team Worksheets** document allows you to readily access your team member's work
 - This will be especially helpful when completing **Stage 2** of the milestone

MILESTONE 1 (STAGE 2) – LIST OF OBJECTIVES, CONSTRAINTS, AND FUNCTIONS

Please complete this worksheet in your corresponding team document.

MILESTONE 1 (STAGE 3) – MORPHOLOGICAL ANALYSIS

Please complete this worksheet in your corresponding team document.

MILESTONE 1 (STAGE 4) – CONCEPT SKETCHES

Team Number:

Thurs-03

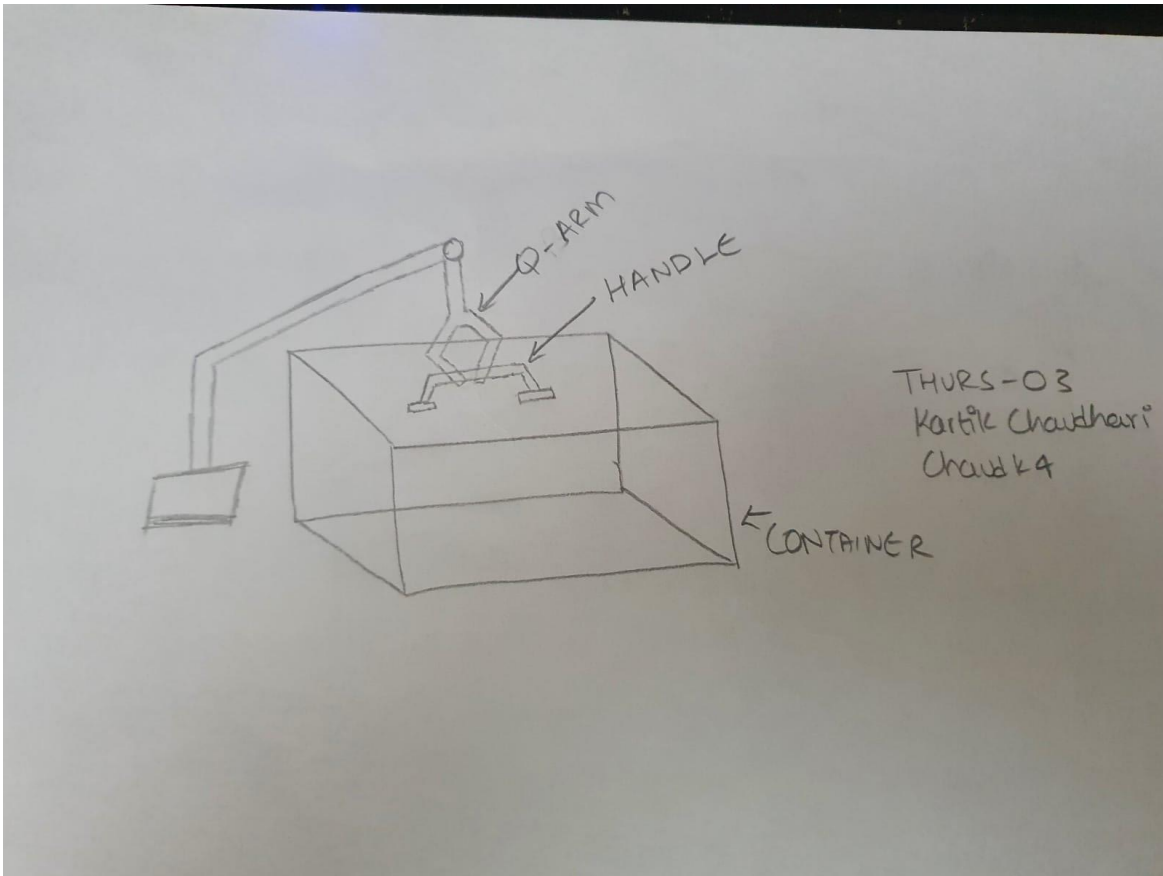
Complete this worksheet after having done stage 3 as a team.

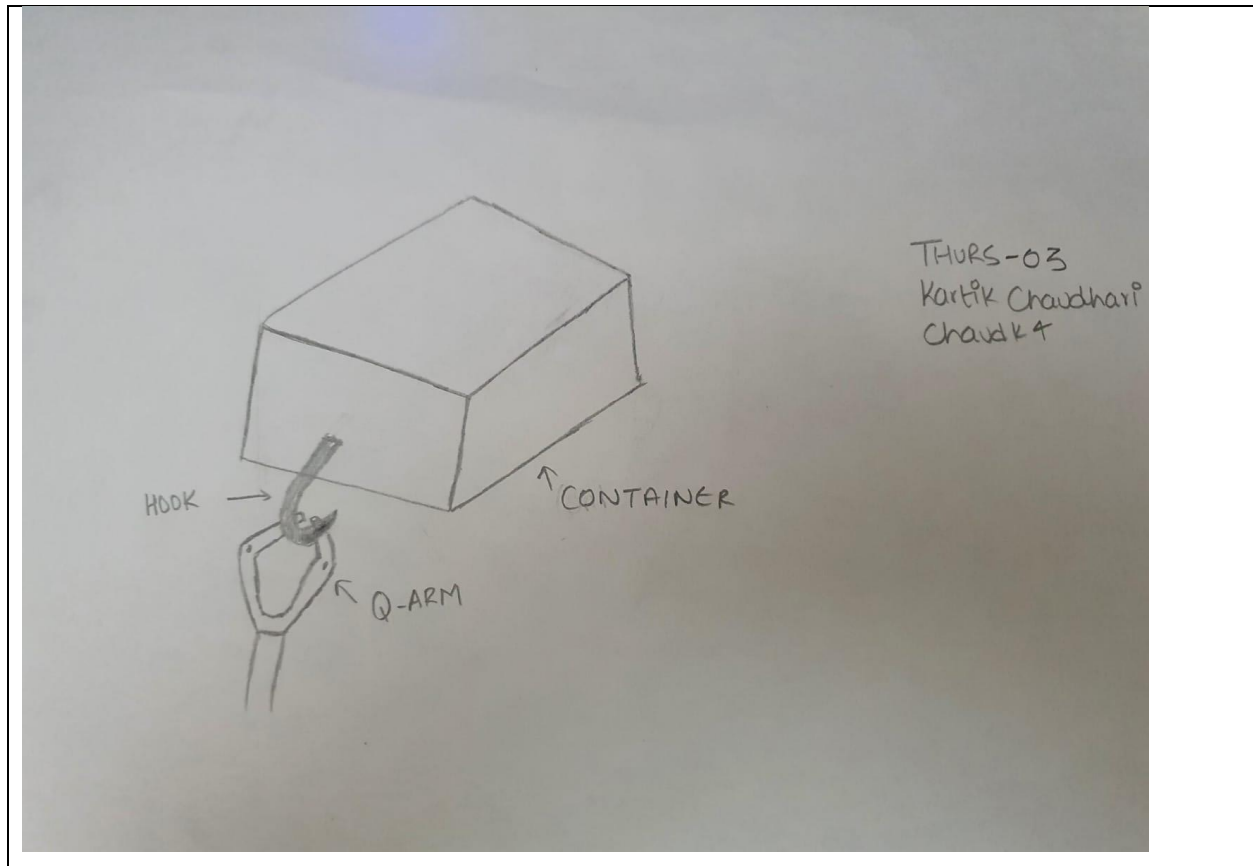
1. Complete your sketches on a separate sheet of paper
 - Be sure to clearly write your Team Number, Name and MacID on each sketch
 - Do **not** include concepts for the stabilization and sterilization of the tools
 - You can sketch only the container, and do not need to sketch the Q-arm itself unless it adds to the communication of your design
2. Take a photo of your sketch
3. Insert your photo as a Picture (Insert > Picture > This Device)
4. **Do not include more than one sketch per page**

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*For multiple sketches, please copy and paste the above on a new page