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| Activity 11-2 | Requirements Definition |
| Textbook Reference: | Ulrich & Eppinger, Chapter 5 |
| Purpose / Goal: | To define and document the requirements for the team project. |
| Materials / Resources Required: | Laptop, Problem area definitions, focus area definition, statement of work, and user wants / needs from previous activity. Mini-project work on customer specifications & requirements. Example – Requirements Definition file available from LMS. |
| Time Allocated: | 1 hours |

# Description

Using the User Needs / Functional Analysis for your team project and the other inputs as the context for this activity, your team will seek to convert the important customer requirements into functional requirements and measurable technical specifications.

Follow the same process as used for the mini-project but use the team project as the context. Use the table in the provided example file as your starting point.

Table of Customer Requirements and Corresponding Technical Specifications

| Customer Requirement | Technical Specification | Target Value / Range of Values | Actual Value / Range of Values |
| --- | --- | --- | --- |
| *User Comfort* | *Noise Level* | *70db Max* |  |
| *User Comfort* | *Device weight* | *30 lbs Max* |  |
| *Size – it should fit in my bathroom* | *Height x width x depth* | *Up to 10’x12’x10’* |  |
| *Can be used by a child* | *Age* | *3-10 years old* |  |
| *Can be used by a child* | *Strength* | *5 lbs or less to operate* |  |
| Can be used by a child | Height | Operating controls no more than 3 feet above ground/floor |  |
| *Air dry my winter clothing to be “dry to the touch”* | *Moisture content at 65 degrees F* | *2% - 10%* |  |
| *Support a person* | *Weight (based on large adult)* | *250lbs min* |  |
|  |  |  |  |

The above is a sample table showing a number of customer requirements and how they have been converted to technical requirements.

Notes:

* create additional rows as needed
* delete the *italicized example*
* keep one customer requirement with corresponding technical specification per row
* create additional rows with the same customer requirement if there are multiple technical specifications
* After each specification is identified, identify the related metrics for it as either a single value (usually an upper or lower limit) or as a range of values.
* Note the last column in the table. Once the project is built you can record your final test result here to help show which requirements you were able to achieve and which ones were not accomplished. A fair, honest and accurate evaluation is critical for good project management!