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PROBLEM SOLVING PROCESS

MUST-HAVES
CRITERIA FOR A SUCCESSFUL EXPERIENCE

⇒ Problem definition and clarity of purpose, goals
⇒ Stages of problem solving which brings simplicity
⇒ Assignment of tasks within each stage
⇒ Gates or assessments between stages

THROUGHOUT THE PROJECT PROCESS

⇒ Ensuring the voice of the client
⇒ Adhering time deadlines during process
⇒ Embedding teamwork processes (goals, roles/responsibilities, norms, decision making)
⇒ Utilizing qualitative and quantitative data
⇒ Communicating and presenting the flow of project process

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PROBLEM SOLVING PROCESS

RESEARCH
PROJECT PROCESS

1 **DEFINE**
problem or opportunity

2 **DEVELOP**
research plan
(interview, survey, user tests, etc)

3 **COLLECT**
& organize data

4 **CREATE**
an analysis, brain storm creative actions or recommendations

5 **STRATEGIZE**
presentation

6 **PRESENT**

ANALYSIS
PROJECT PROCESS

1 **PROBLEM STATEMENT**
Data requirements, technology use determination
(What and how to measure)

2 **TECHNOLOGY**
training and development
Decide how to collect data. Develop templates to be approved.

3 **COLLECT**
& organize data

4 **ANALYZE**
the data, revise and collect more data if needed

5 **INTERPRET**
results, visualize the data, strategize the presentation

6 **PRESENT**

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PROBLEM SOLVING PROCESS

PLAN & STRATEGY
PROJECT PROCESS

1 **PROBLEM STATEMENT**
& Requirements

2 **RESEARCH**
and explore prior work in this area. Study the consumer or customer.

3 **DESIGN & CONSTRUCT**
a plan and strategy (new)

4 **TEST & IMPROVE**
this plan and strategy with user feedback

5 **PRESENT**

DESIGN & DEVELOPMENT
PROJECT PROCESS

1 **RESEARCH**
Problem Statement, Prior Solutions, Design Requirements
Become an expert of the problem and end user (if applicable)

2 **DESIGN**
multiple solutions, drawings and designs.
Create decision matrix to choose.

3 **TEST & PREPARE**
to build prototype
Finalize drawings and schematics, identify materials, tools, and skills needed. Seek fabrication support, validate solution with coach.

4 **TEST & ANALYZE**
Prototype
Develop, test and construct

5 **EVALUATE & REFLECT**
Reflect on solution and process

6 **PRESENT**

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