

Part I: Usability Testing Requirements Considerations

Usability Testing Category	Useability Testing Requirements Considerations
Learnable	<ul style="list-style-type: none">• Determine how easy or difficult it is for the user to accomplish basic tasks the first time they encounter the design• Document what went well and what needs improvement• Update the product design as applicable
Efficient	<ul style="list-style-type: none">• Determine how long it takes for the user to learn the design• Document how long it takes for the user to perform tasks once the design is understood• Document what went well and what needs improvement• Update the product design/manuals/instructions as applicable
Memorable	<ul style="list-style-type: none">• Determine how long it takes the user to re-establish proficiency after they have not used the product for an extended period• Document questions and potential areas of confusion• Update the product design/manuals/instructions as applicable
Free of Errors	<ul style="list-style-type: none">• Document usage errors made by the user• Classify the errors as severe, moderate, and minor• Determine root causes for the errors• Update the product design/manuals/instructions as applicable
Delightful	<ul style="list-style-type: none">• Determine how pleasant the design is for users• List what they like, and what they find to be a detriment• Evaluate features and functions and make updates as required

Part II: Usability Testing Requirements Considerations

Usability Testing Category	Usability Testing Requirements Considerations
Learnable	<ul style="list-style-type: none">• Users should be able to easily understand the basic functions of the solar water heating system upon initial use.• Instructions and user interface should be intuitive and self-explanatory.
Efficient	<ul style="list-style-type: none">• Users should be able to perform common tasks, such as adjusting settings or monitoring system performance, quickly and without unnecessary steps.• System response times should be fast and responsive.
Memorable	<ul style="list-style-type: none">• Users should be able to recall how to operate the system and access key features without referring to external documentation after initial use.
Free of Errors	<ul style="list-style-type: none">• The system should minimize the occurrence of errors or misunderstandings by providing clear feedback and guidance to users.
Delightful	<ul style="list-style-type: none">• The user experience should be enjoyable and satisfying, enhancing overall user satisfaction with the product.• Visual design and interface elements should be aesthetically pleasing.