



# Canon T3 Rebel

## Usability Test

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## Abstract

A detailed usability test of the Canon Rebel T3 Digital Single-Len Reflex camera was done using the principles of good design and usability attributes to see if the camera was a well-constructed interface or if it needed improvements. The findings indicated that the Canon Rebel T3 camera received overall positive ratings among the random participants evaluating the interface.



## Table of Contents

<b>Abstract.....</b>	<b>2</b>
<b>General Introduction .....</b>	<b>4</b>
<b>Organization of the Paper .....</b>	<b>4</b>
<b>Section-1: Description of Experiment.....</b>	<b>4</b>
<b>Section-2: Population-Selection .....</b>	<b>6</b>
<b>Section-3: Pre-Test.....</b>	<b>8</b>
<b>Section-4: List of Tasks and Instructions.....</b>	<b>9</b>
<b>Section-5: Post Test .....</b>	<b>10</b>
<b>Section-6: Present Results .....</b>	<b>12</b>
<b>Tables .....</b>	<b>12</b>
<b>Section-7: Results .....</b>	<b>13</b>
<b>Conclusion .....</b>	<b>14</b>
<b>References.....</b>	<b>16</b>
<b>Appendix A – Pre-Test .....</b>	<b>17</b>
<b>Appendix B – Task List .....</b>	<b>25</b>
<b>Appendix C – Post-Test .....</b>	<b>26</b>

## General Introduction

The Canon T3 Rebel is a Digital Single-Lens Reflex camera. It is fairly cheap and highly desirable, at 12.2-megapixel. “The Canon EOS Rebel T3 is a premium entry level DSLR that captures excellent still images and video...” (Derrick Story, Macworld Magazine). DSLR is “a single lens reflex camera that utilizes mirrors and prisms to reflect a real view of what the photographer is taking a picture of, instead of the usual viewfinder square that could be inaccurate”. The camera combines the digital single-lens reflex camera with a digital imaging sensor; this means that the pictures are stored on a memory stick instead of a film. The canon has a dial that lets the user utilize different settings from manual settings for the advanced users to simple point and shoot settings for day or night activities. The Group or Group 6, as we will call ourselves throughout the report, will perform a usability test on the interface of the T3. “Usability is generally regarded as ensuring that interactive products are easy to learn, effective to use, and enjoyable from the user's perspective.”(Yvonne, Rogers, Preece).

## Organization of the Paper

The report begins with an abstract and a Table of Content that briefly summarizes the entire project. Next, the group developed a General Introduction of the project and the main goal to be achieved. The project continues with the detailed description of the experiment and the steps taken in order to complete the testing. A Population Selection is included explaining the criteria used to select the test participants. The next sections of the report include a description of the Pre-Test, Tasks Instructions and Post-Test. Forms utilized on the test are included on this section. A set of result with charts and tables comes next to present the findings and provide a visual representation of the results. The paper ends with Final Remarks and Conclusion and a references sheet with appendixes.

## Section-1: Description of Experiment

Group 6 began the project with the planning stage since an appropriate hardware/software interface had been chosen. The initial phase of the planning stage began with determining what the goal of our project was. The Group decided that the goal of this test was to show that entry-level Digital

Single-Lens Reflex (DSLR) cameras were just as easy to use as standard “point and shoot” cameras for consumers with little to no experience and professionals alike. The benefit of the DSLR is that the user gets professional quality images as well as the ease of use of traditional point and shoot. With the DSLR camera the photographer also has an advantage in speed, adaptability with different lighting, and significant image quality. The Group felt that a usability test of just women would be appropriate so that gender could not be accounted for as a variable. Critics on either side of the aisle could claim that their sex is better with cameras; so that aspect of the experiment was eliminated.

To reach the test goal the Group felt that it is necessary to develop a required set of instructions that each participant would need to follow. A more detailed process of the instructions is detailed below in the [instruction section] as this is a more general overview of the entire experiment. The testing site where the usability test was to be completed was the fourth floor of the UCF library. The group rented a study room on the quiet floor of the library to optimize the participants’ focus and keep distractions to bare minimal. The necessary materials needed for the usability test would be laid out on desk with a padded chair for comfort. This would insure a comfortable workstation as it is an air-conditioned environment and all variables such as lighting, heat, noise, and uncomfortable room were eliminated. After the workstation arrangements were made the group then focused on the next step of the evaluation; implementing the experiment and gathering data.

The group then decided that a pre-test would be needed to collect data on the participants. This would allow us to collect data and help us determine whether the interface easily interacts with the user. “You can have a conversation without a social object. You cannot have a social object without a conversation. It is the conversation that makes the object social” (JP Rangaswami). This data included information such as education, age, user experience with cameras and skills. This pre-test was in the form of a questionnaire and implemented such strategies as the likert scale, yes-no questions, and fill in the blanks. The experiment was then conducted with written and verbal instructions being introduced to the participants upon arrival. We observed one participant at a time to keep the other participants from being

able to watch the examination and get an unfair advantage that would mostly skew the data. The participants were informed of the rules and notified that they were not being evaluated in anyway. The participants were instructed to complete the set of tasks in sequential order and announce when each task was completed so that the proctor could mark the time of each completed task. If a task was unable to be completed, the task would be marked as an Incomplete and the proctor would complete that task for the participant. The participants were then instructed to move onto the next task and continue with the experiment. During the experiment no help was given by the proctors, the participants were only informed that they had successful completed the task or had not completed the task. Before the experiment was conducted, the participants were encouraged to think aloud and express their thoughts. This information was recorded and the proctors also recorded their actions such as errors, problems, and common questions.

During the completion of the experiment the participants were then asked to fill out a post-test questionnaire regarding their experience with the DSLR camera and difficulty completing each step. For completing our examination each participant was provided a candy bar and bottled water for their time. From here we able to mine the data and start on the next phase of the usability test; coming to a conclusion with the results.

## **Section-2: Population-Selection**

Group 6 decided that to achieve the best results, a random selection of participants would be beneficial for the usability test. The participants would be students from the main campus of the University of Central Florida. The participant gathering took place on the fourth floor of the library and it was completed in one day. Before the participants began the test they were screened to make sure that they met the basic requirements. The participants were not allowed to be pursuing a Computer Science or Information Technology degree. All eight female participants had to also meet the requirements of being between the ages of eighteen and twenty five years old.

The selection process was done in close proximity to the reserved study room. A group member politely approached participants and asked them to anonymously participate in the test. Once they agreed they were escorted to the reserved study room at the library. In the case where multiple participants were selected together, they were required to wait outside the room to not compromise the usability test. The participants were then instructed on what the usability test was about. They were not offered assistance throughout the completion of the test.

### Section-3: Pre-Test

The pre-test was administered before the usability test began. Here is a blank form of the pre-test as it was presented to the participants.

Participant# _____				
<b>Usability Pre-Test</b>				
<b>Canon Rebel T3</b>				
<b>Please fill out the following questionnaire before beginning the test</b>				
Age _____		Major _____		
Have you ever used a Digital Single-Lens Reflex(DSLR) camera? <b>(Circle your answer)</b>				
Yes		No		
How familiar are you with Digital Single-Lens Reflex(DSLR) Cameras? <b>(Circle your answer)</b>				
1	2	3	4	5
Don't Know	Not at all Familiar	Familiar	Somewhat Familiar	Very Familiar
How often do you use a Digital Single-Lens Reflex(DSLR) Camera? <b>(Circle your answer)</b>				
1	2	3	4	5
Never	Used Once	Frequent	Often	Very Often
Have you ever used the Canon Rebel T3 Digital Single-Lens Reflex(DSLR)? <b>(Circle your answer)</b>				
Yes		No		
Have you ever used another type of Digital Single-Lens Reflex(DSLR) camera? <b>(Circle your answer)</b>				
Yes		No		
If yes, what kind of a camera do you currently own? _____				
Have you ever considered buying a Digital Single-Lens Reflex (DSLR) camera? <b>(Circle your answer)</b>				
Yes		Maybe		No



## Section-4: List of Tasks and Instructions

This set of instructions was laid out on the table of the testing center for the participants to view.

The Canon T3 DSLR camera, 8GB Transcend Memory Card, and Canon T3 Lithium Rechargeable Battery accompanied it. The bold text at the top of the instructions page was the only text visible as a sheet of paper was used to cover the steps until the participants signaled that they are ready to begin. They were asked to read the bold print aloud to the proctors to insure that they read them fully. Verbal instructions were given as well, the proctor made sure that the participants understood that only the interface was being evaluated. They were also told to “speak aloud” and announce when they had successfully completed the task. The last verbal statement was reaffirming that no help could be provided and asking them to announce when they were ready to begin so that the steps could be revealed.

### **Instructions**

**Please follow the instructions below.**

**You will have 5 minutes to complete the task. If the task is unable to be complete in 5 minutes, the proctors will notify you and the assessment will be stopped immediately.**

**If a task is unable to be completed, notify the proctors and they will mark that task as incomplete and assist you in moving to the next task. No help will/ca be administered during the duration of the assessment. If at any point you wish to stop the assessment please notify the proctors immediately and it will be stopped. You are not being evaluated; the interface of the camera is being evaluated.**

Step 1: Take off the lens cap

Step 2: Insert the battery

Step 3: Insert the SD card

Step 4: Set the lens focus mode to Automatic-Focus(AF)

Step 5: Set the power switch to ON

Step 6: Set the mode dial to Manual Exposure

Step 7: Focus on the water bottle (Aim the viewfinder center over the subject and press the shutter button halfway.)

Step 8: Take the picture of the water bottle (Press the shutter button completely)

Step 9: View the image

Step 10: Turn the camera off

Thank you for your participation!

## Section-5: Post Test

The post-test was administered after the usability test had been completed. Here is a blank form of the post-test as it was presented to the participant upon completing the usability test.

Participant# _____	Page 1			
<h3 style="margin: 0;">Post-Test</h3> <h4 style="margin: 0;">Canon Rebel T3</h4> <p style="margin: 10px 0;"><b>Please rate the following tasks using the following scale. 1 for very easy, 3 for neither easy nor difficult, and 5 for very difficult. (Circle your answers)</b></p>				
<p>Was the camera easy to use? <b>(Circle your answer)</b></p>				
1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult
<p>The required steps were what I expected. <b>(Circle your answer)</b></p>				
Yes	No			
<p>The Instructions were helpful. <b>(Circle your answer)</b></p>				
Yes	No			
<p>I would consider buying a Digital Single-Lens Reflex (DSLR) Camera after this demonstration. <b>(Circle your answer)</b></p>				
Yes	No			
<p>The instructions were not enough and I will probably need a manual for the camera. <b>(Circle your answer)</b></p>				
Yes	No			

Participant# \_\_\_\_\_

Page 2

I would consider recommending the camera to a friend. **(Circle your answer)**

1	2	3	4	5
Strongly Agree	Agree	Neither	Disagree	Strongly Disagree

**Please rate each step on a scale of 1 to 5. With 1 being very easy, 3 being neither easy nor difficult, and 5 being very difficult.**

Step 1: Take off the lens cap**(Circle your answer)**

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 2: Insert the battery**(Circle your answer)**

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 3: Insert the SD card**(Circle your answer)**

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 4: Set the lens focus mode to Automatic-Focus(AF) **(Circle your answer)**

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 5: Set the power switch to ON**(Circle your answer)**

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 6: Set the mode dial to Manual Exposure**(Circle your answer)**

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 7: Focus on the water bottle (Aim the viewfinder center over the subject and press the shutter button halfway.) **(Circle your answer)**

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 8: Take the picture of the water bottle (Press the shutter button completely) **(Circle your answer)**

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 9: View the picture just taken**(Circle your answer)**

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 10: Turn the DSLR camera off**(Circle your answer)**

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

## Section-6: Present Results

### Tables

#### Tasks time table:

Tasks	Participant 1	Participant 2	Participant 3	Participant 4	Participant 5	Participant 6	Participant 7	Participant 8
Step 1- Take off cap	5.5	1.32	1.2	1.3	5.5	4.3	7	6
Step 2-Insert Battery	16.1	11.81	13.25	14.93	13.7	11.4	22.7	18.6
Step 3-Insert SD card	11	8.43	12.15	6.43	18.5	12.9	18.2	29.1
Step 4-Set the lens focus	33.8-F	15.53	1.06-F	16.93	28.3	11.1	29.4	7.5
Step 5-Turn the Camera On	5.6	5.96	10.08	4.1	2.3	4.6	3.6	9
Step 6-Set manual exposure	28.5	4.94	35.55	48.56	17.4	51.7	11.4	1.24-F
Step 7-Focus on water bottle	25.3	16.45	19.1	54.86	7.7	12.1	14.7	33.8
Step 8-Take a picture	23.8	6.2	9.6	5.06	11.2	1.1	8.6	1.2
Step 9-View the image	58-F	22	10.6	4.7	7.4	5	4.6	24.9
Step 10-Turn the Camera off	4.3	1.12	3.7	3.21	2.7	3.2	1.9	3.3
Time/Seconds	211.9	93.76	116.29	160.08	114.7	117.4	122.1	134.64
Time/Minutes	3.53	1.56	1.94	2.67	1.91	1.96	2.04	2.24

NOTE: "F" STANDS FOR FAILED TO PERFORM THE TASK.

#### Average time per step:

Step	Average time
Take off cap	4.02
Insert Battery	15.31
Insert SD card	14.59
Set the lens focus	17.95
Turn the Camera On	5.66
Set manual exposure	24.91
Focus on water bottle	23.00
Take a picture	8.35
View the image	17.15
Turn the Camera off	2.93

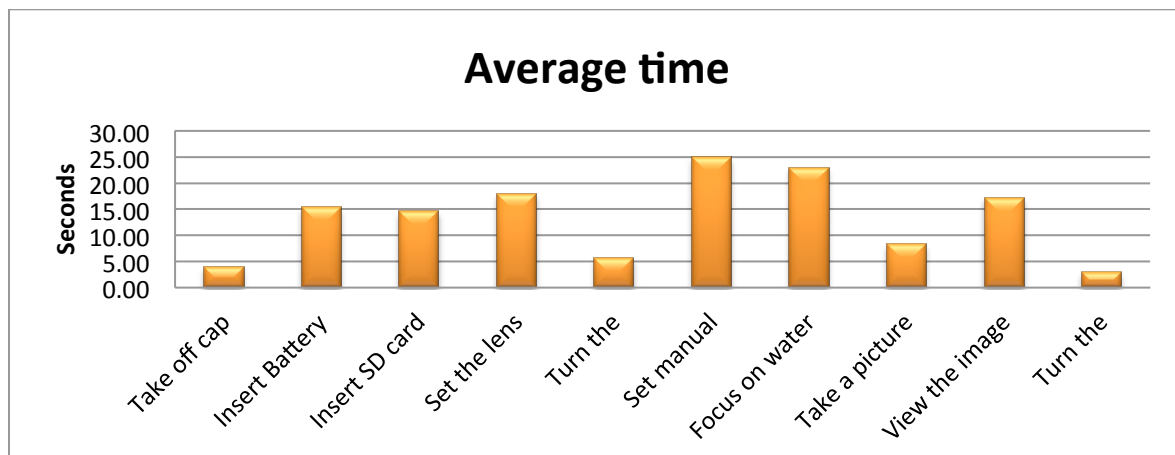
## Difficulty of Tasks (Percentage)

Step	Difficulty (Percentage)
Take off cap	3%
Insert Battery	11%
Insert SD card	11%
Set the lens focus	13%
Turn the Camera On	4%
Set manual exposure	19%
Focus on water bottle	17%
Take a picture	6%
View the image	13%
Turn the Camera off	2%

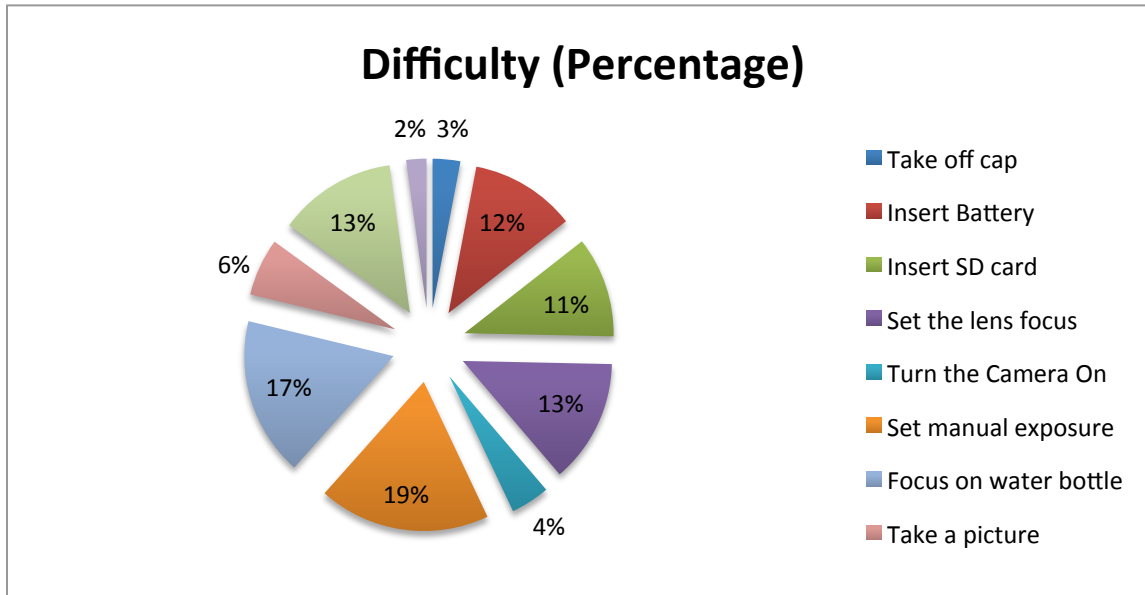
**NOTE: Percentage was found by dividing average time for step over “total average time”**

## Section-7: Results

Upon Completion of the test, the group found out that setting the manual exposure mode was the most difficult part in the experiment, only one person failed to set the manual exposure which means that the whole group of participants figured it out eventually. “Users should not have to wonder whether different words, situations, or actions mean the same thing” (Nielsen)”. All the participants completed the whole list of tasks in half the time anticipated “the participants were given five minutes to complete the tasks”.



Furthermore four of the participants were familiar with DSLR cameras versus four that weren't. Six of the participants said that the camera was easy to use on the survey while the other two said that it was average. There wasn't any difficulty in any of the steps, participant one failed two steps and participant three and eight failed one step each. "User research helps us to understand how other people live their lives, so that we can respond more effectively to their needs with informed and inspired design solutions" (Sherwin).



These results led to the conclusion that DSLR cameras are just as easy to use as regular cameras. None of the participants had any serious problems performing the tasks; they all thought that the DSLR camera was fairly easy to use.

## Conclusion

The objective of this usability test was to show that entry-level Digital Single-Lens Reflex (DSLR) cameras could be just as easy to use as standard "point and shoot" cameras. With the DSLR, the consumer is able to obtain professional quality images with the ease of use of traditional point and shoot cameras. In addition, the photographer gets other advantages over a "point and shoot" camera such as speed, lighting, and image quality.

Upon completion of the testing, the group gathered the data and interpreted the findings. Based on the results provided above, the group concluded that the entry-level Digital Single-Lens Reflex (DSLR) camera interface could be just as easy to use as “point and shoot” camera. The basic tasks required for this test had an appropriate level of difficulty and were comparable to tasks that users might perform on “point and shoot” cameras. Only a few of the participants failed to complete some minor tasks, while the majority of them were able to follow and complete the instructions successfully. All the participants concurred that the DSLR camera was easy to use and the interface was intuitive and user-friendly. Some participants had few recommendations for the interface tested; a common one was the addition of a touch screen. This is a feature on the upgraded version of the T3, the T3i, and consequently is an increase of several hundred dollars. Another recommendation was an improved turn dial; this seemed to cause the participants the most confusion and probably the biggest challenge to overcome. Otherwise they seem very satisfied with the overall design and features of the camera. All in all Group 6 came to the conclusion that the Canon T3 DSLR camera has a good interface with minimal flaws. (Wolf)

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# Appendix A - Pre-Test

Participant# 2

## Usability Pre-Test

### Canon Rebel T3

Please fill out the following questionnaire before beginning the test

Age 18 Major Health sciences

Have you ever used a Digital Single-Lens Reflex(DSLR) camera? (Circle your answer)

Yes

No

How familiar are you with Digital Single-Lens Reflex(DSLR) Cameras? (Circle your answer)

1

2

3

4

5

Don't Know

Not at all Familiar

Familiar

Somewhat Familiar

Very Familiar

How often do you use a Digital Single-Lens Reflex(DSLR) Camera? (Circle your answer)

1

2

3

4

5

Never

Used Once

Frequent

Often

Very Often

Have you ever used the Canon Rebel T3 Digital Single-Lens Reflex(DSLR)? (Circle your answer)

Yes

No

Have you ever used another type of Digital Single-Lens Reflex(DSLR) camera? (Circle your answer)

Yes

No

If yes, what kind of a camera do you currently own? \_\_\_\_\_

Have you ever considered buying a Digital Single-Lens Reflex (DSLR) camera? (Circle your answer)

Yes

Maybe

No

Participant# 2

## Usability Pre-Test

### Canon Rebel T3

Please fill out the following questionnaire before beginning the test

Age 19 Major Communications

Have you ever used a Digital Single-Lens Reflex(DSLR) camera? (Circle your answer)

Yes  No

How familiar are you with Digital Single-Lens Reflex(DSLR) Cameras? (Circle your answer)

1 2 3 4 5  
Don't Know Not at all Familiar Familiar Somewhat Familiar Very Familiar

How often do you use a Digital Single-Lens Reflex(DSLR) Camera? (Circle your answer)

1 2 3 4 5  
Never Used Once Frequent Often Very Often

Have you ever used the Canon Rebel T3 Digital Single-Lens Reflex(DSLR)? (Circle your answer)

Yes  No

Have you ever used another type of Digital Single-Lens Reflex(DSLR) camera? (Circle your answer)

Yes  No

If yes, what kind of a camera do you currently own? \_\_\_\_\_

Have you ever considered buying a Digital Single-Lens Reflex (DSLR) camera? (Circle your answer)

Yes  Maybe  No

Participant# 3

## Usability Pre-Test

### Canon Rebel T3

Please fill out the following questionnaire before beginning the test

Age 21 Major Marketing

Have you ever used a Digital Single-Lens Reflex(DSLR) camera? (Circle your answer)

Yes

No

How familiar are you with Digital Single-Lens Reflex(DSLR) Cameras? (Circle your answer)

1

2

3

4

5

Don't Know

Not at all Familiar

Familiar

Somewhat Familiar

Very Familiar

How often do you use a Digital Single-Lens Reflex(DSLR) Camera? (Circle your answer)

1

2

3

4

5

Never

Used Once

Frequent

Often

Very Often

Have you ever used the Canon Rebel T3 Digital Single-Lens Reflex(DSLR)? (Circle your answer)

Yes

No

Have you ever used another type of Digital Single-Lens Reflex(DSLR) camera? (Circle your answer)

Yes

No

If yes, what kind of a camera do you currently own? \_\_\_\_\_

Have you ever considered buying a Digital Single-Lens Reflex (DSLR) camera? (Circle your answer)

Yes

Maybe

No

Participant# 4

## Usability Pre-Test

### Canon Rebel T3

Please fill out the following questionnaire before beginning the test

Age 23 Major Health sciences - pre clinical

Have you ever used a Digital Single-Lens Reflex(DSLR) camera? (Circle your answer)

Yes

No

How familiar are you with Digital Single-Lens Reflex(DSLR) Cameras? (Circle your answer)

1

2

3

4

5

Don't Know

Not at all Familiar

Familiar

Somewhat Familiar

Very Familiar

How often do you use a Digital Single-Lens Reflex(DSLR) Camera? (Circle your answer)

1

2

3

4

5

Never

Used Once

Frequent

Often

Very Often

Have you ever used the Canon Rebel T3 Digital Single-Lens Reflex(DSLR)? (Circle your answer)

Yes

No

Have you ever used another type of Digital Single-Lens Reflex(DSLR) camera? (Circle your answer)

Yes

No

If yes, what kind of a camera do you currently own? \_\_\_\_\_

Have you ever considered buying a Digital Single-Lens Reflex (DSLR) camera? (Circle your answer)

Yes

Maybe

No

Participant# 05

### Usability Pre-Test

#### Canon Rebel T3

Please fill out the following questionnaire before beginning the test

Age 19 Major Marketing

Have you ever used a Digital Single-Lens Reflex(DSLR) camera? (Circle your answer)

Yes  No  Average  Difficult  Very Difficult

How familiar are you with Digital Single-Lens Reflex(DSLR) Cameras? (Circle your answer)

1 2  3 4 5  
Don't Know Not at all Familiar Familiar Somewhat Familiar Very Familiar

How often do you use a Digital Single-Lens Reflex(DSLR) Camera? (Circle your answer)

1  2 3 4 5  
Never Used Once Frequent Often Very Often

Have you ever used the Canon Rebel T3 Digital Single-Lens Reflex(DSLR)? (Circle your answer)

Yes  No

Have you ever used another type of Digital Single-Lens Reflex(DSLR) camera? (Circle your answer)

Yes  No

If yes, what kind of a camera do you currently own? n/a

Have you ever considered buying a Digital Single-Lens Reflex (DSLR) camera? (Circle your answer)

Yes  Maybe  No

Participant# 6

## Usability Pre-Test

### Canon Rebel T3

Please fill out the following questionnaire before beginning the test

Age 19 Major Pre-Nursing

Have you ever used a Digital Single-Lens Reflex(DSLR) camera? (Circle your answer)

Yes  No

How familiar are you with Digital Single-Lens Reflex(DSLR) Cameras? (Circle your answer)

1 2 3 4  5  
Don't Know Not at all Familiar Familiar Somewhat Familiar Very Familiar

How often do you use a Digital Single-Lens Reflex(DSLR) Camera? (Circle your answer)

1 2 3  4 5  
Never Used Once Frequent Often Very Often

Have you ever used the Canon Rebel T3 Digital Single-Lens Reflex(DSLR)? (Circle your answer)

Yes  No

Have you ever used another type of Digital Single-Lens Reflex(DSLR) camera? (Circle your answer)

Yes  No

If yes, what kind of a camera do you currently own? Canon Rebel Xs

Have you ever considered buying a Digital Single-Lens Reflex (DSLR) camera? (Circle your answer)

Yes  Maybe  No

Participant# 7

## Usability Pre-Test

### Canon Rebel T3

Please fill out the following questionnaire before beginning the test

Age 18 Major Biomedical

Have you ever used a Digital Single-Lens Reflex(DSLR) camera? (Circle your answer)

Yes  No

How familiar are you with Digital Single-Lens Reflex(DSLR) Cameras? (Circle your answer)

1 2 3 4 5  
Don't Know Not at all Familiar Familiar Somewhat Familiar Very Familiar

How often do you use a Digital Single-Lens Reflex(DSLR) Camera? (Circle your answer)

1 2 3 4 5  
Never Used Once Frequent Often Very Often

Have you ever used the Canon Rebel T3 Digital Single-Lens Reflex(DSLR)? (Circle your answer)

Yes  No

Have you ever used another type of Digital Single-Lens Reflex(DSLR) camera? (Circle your answer)

Yes  No

If yes, what kind of a camera do you currently own? \_\_\_\_\_

Have you ever considered buying a Digital Single-Lens Reflex (DSLR) camera? (Circle your answer)

Yes  Maybe  No

Participant# 8

## Usability Pre-Test

### Canon Rebel T3

Please fill out the following questionnaire before beginning the test

Age 24 Major Character Animation

Have you ever used a Digital Single-Lens Reflex(DSLR) camera? (Circle your answer)

Yes  No  Average  Difficult  Very Difficult

How familiar are you with Digital Single-Lens Reflex(DSLR) Cameras? (Circle your answer)

1 2 3  4 5  
Don't Know Not at all Familiar Familiar Somewhat Familiar Very Familiar

How often do you use a Digital Single-Lens Reflex(DSLR) Camera? (Circle your answer)

1 2  3 4 5  
Never Used Once Frequent Often Very Often

Have you ever used the Canon Rebel T3 Digital Single-Lens Reflex(DSLR)? (Circle your answer)

Yes  No

Have you ever used another type of Digital Single-Lens Reflex(DSLR) camera? (Circle your answer)

Yes  No

If yes, what kind of a camera do you currently own? Canon 60D

Have you ever considered buying a Digital Single-Lens Reflex (DSLR) camera? (Circle your answer)

Yes  Maybe  No



## Appendix B – Task List

### Instructions

Please follow the instructions below.

**You will have 5 minutes to complete the task. If the task is unable to be complete in 5 minutes, the proctors will notify you and the assessment will be stopped immediately.**

**If a task is unable to be completed, notify the proctors and they will mark that task as incomplete and assist you in moving to the next task. No help will/ca be administered during the duration of the assessment. If at any point you wish to stop the assessment please notify the proctors immediately and it will be stopped. You are not being evaluated; the interface of the camera is being evaluated.**

Step 1: Take off the lens cap

Step 2: Insert the battery

Step 3: Insert the SD card

Step 4: Set the lens focus mode to Automatic-Focus(AF)

Step 5: Set the power switch to ON

Step 6: Set the mode dial to Manual Exposure

Step 7: Focus on the water bottle (Aim the viewfinder center over the subject and press the shutter button halfway.)

Step 8: Take the picture of the water bottle (Press the shutter button completely)

Step 9: View the image

Step 10: Turn the camera off

Thank you for your participation!

Appendix C - Post-Test

Participant# 1

Page 1

Post-Test

Canon Rebel T3

Please rate the following tasks using the following scale. 1 for very easy, 3 for neither easy nor difficult, and 5 for very difficult. (Circle your answers)

Was the camera easy to use? (Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

The required steps were what I expected. (Circle your answer)

Yes	No
-----	----

The Instructions were helpful. (Circle your answer)

Yes	No
-----	----

I would consider buying a Digital Single-Lens Reflex (DSLR) Camera after this demonstration. (Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

The instructions were not enough and I will probably need a manual for the camera. (Circle your answer)

Yes	No
-----	----

Participant# 1

Page 2

I would consider recommending the camera to a friend. (Circle your answer)

1	2	3	4	5
Strongly Agree	Agree	Neither	Disagree	Strongly Disagree

Please rate each step on a scale of 1 to 5. With 1 being very easy, 3 being neither easy nor difficult, and 5 being very difficult.

Step 1: Take off the lens cap(Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 2: Insert the battery(Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 3: Insert the SD card(Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 4: Set the lens focus mode to Automatic-Focus(AF) (Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 5: Set the power switch to ON(Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 6: Set the mode dial to Manual Exposure(Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 7: Focus on the water bottle (Aim the viewfinder center over the subject and press the shutter button halfway.) (Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 8: Take the picture of the water bottle (Press the shutter button completely) (Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 9: View the picture just taken(Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 10: Turn the DSLR camera off(Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Participant# 2

Page 1

### Post-Test

#### Canon Rebel T3

Please rate the following tasks using the following scale. 1 for very easy, 3 for neither easy nor difficult, and 5 for very difficult. (Circle your answers)

Was the camera easy to use? (Circle your answer)

1                      2                      3                      4                      5  
Very Easy          Easy          Average          Difficult          Very Difficult

The required steps were what I expected. (Circle your answer)

Yes                      No  
Very Easy          Easy          Average          Difficult          Very Difficult

The Instructions were helpful. (Circle your answer)

Yes                      No  
Very Easy          Easy          Average          Difficult          Very Difficult

I would consider buying a Digital Single-Lens Reflex (DSLR) Camera after this demonstration. (Circle your answer)

Yes                      No  
Very Easy          Easy          Average          Difficult          Very Difficult

The instructions were not enough and I will probably need a manual for the camera. (Circle your answer)

Yes                      No  
Very Easy          Easy          Average          Difficult          Very Difficult

I would consider recommending the camera to a friend. (Circle your answer)

1	2	3	4	5
Strongly Agree	Agree	Neither	Disagree	Strongly Disagree

Please rate each step on a scale of 1 to 5. With 1 being very easy, 3 being neither easy nor difficult, and 5 being very difficult.

Step 1: Take off the lens cap (Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 2: Insert the battery (Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 3: Insert the SD card (Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 4: Set the lens focus mode to Automatic-Focus(AF) (Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 5: Set the power switch to ON (Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 6: Set the mode dial to Manual Exposure (Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 7: Focus on the water bottle (Aim the viewfinder center over the subject and press the shutter button halfway.) (Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 8: Take the picture of the water bottle (Press the shutter button completely) (Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 9: View the picture just taken (Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 10: Turn the DSLR camera off (Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

### Post-Test

#### Canon Rebel T3

Please rate the following tasks using the following scale. 1 for very easy, 3 for neither easy nor difficult, and 5 for very difficult. (Circle your answers)

Was the camera easy to use? (Circle your answer)

1                      2                      3                      4                      5  
Very Easy            Easy                    Average                Difficult              Very Difficult

The required steps were what I expected. (Circle your answer)

Yes                      No

The Instructions were helpful. (Circle your answer)

Yes                      No

I would consider buying a Digital Single-Lens Reflex (DSLR) Camera after this demonstration. (Circle your answer)

Yes                      No

The instructions were not enough and I will probably need a manual for the camera. (Circle your answer)

Yes                      No

Participant# 3

Page 2

I would consider recommending the camera to a friend. (Circle your answer)

1	2	3	4	5
Strongly Agree	Agree	Neither	Disagree	Strongly Disagree

Please rate each step on a scale of 1 to 5. With 1 being very easy, 3 being neither easy nor difficult, and 5 being very difficult.

Step 1: Take off the lens cap(Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 2: Insert the battery(Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 3: Insert the SD card(Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 4: Set the lens focus mode to Automatic-Focus(AF) (Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 5: Set the power switch to ON(Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 6: Set the mode dial to Manual Exposure(Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 7: Focus on the water bottle (Aim the viewfinder center over the subject and press the shutter button halfway.) (Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 8: Take the picture of the water bottle (Press the shutter button completely) (Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 9: View the picture just taken(Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 10: Turn the DSLR camera off(Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Participant# 4

Page 1

### Post-Test

#### Canon Rebel T3

Please rate the following tasks using the following scale. 1 for very easy, 3 for neither easy nor difficult, and 5 for very difficult. (Circle your answers)

Was the camera easy to use? (Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

The required steps were what I expected. (Circle your answer)

Yes	No
-----	----

The Instructions were helpful. (Circle your answer)

Yes	No
-----	----

I would consider buying a Digital Single-Lens Reflex (DSLR) Camera after this demonstration. (Circle your answer)

Yes	No
-----	----

The instructions were not enough and I will probably need a manual for the camera. (Circle your answer)

Yes	No
-----	----



Participant# 4

I would consider recommending the camera to a friend. **(Circle your answer)**

1	2	3	4	5
Strongly Agree	Agree	Neither	Disagree	Strongly Disagree

Please rate each step on a scale of 1 to 5. With 1 being very easy, 3 being neither easy nor difficult, and 5 being very difficult.

Step 1: Take off the lens cap **(Circle your answer)**

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 2: Insert the battery **(Circle your answer)**

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 3: Insert the SD card **(Circle your answer)**

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 4: Set the lens focus mode to Automatic-Focus(AF) **(Circle your answer)**

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 5: Set the power switch to ON **(Circle your answer)**

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 6: Set the mode dial to Manual Exposure **(Circle your answer)**

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 7: Focus on the water bottle (Aim the viewfinder center over the subject and press the shutter button halfway.) **(Circle your answer)**

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 8: Take the picture of the water bottle (Press the shutter button completely) **(Circle your answer)**

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 9: View the picture just taken **(Circle your answer)**

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 10: Turn the DSLR camera off **(Circle your answer)**

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Have you ever considered buying a Digital Single-Lens Reflex (DSLR) camera?

Yes  No  Maybe

Participant# 5

Page 1

### Post-Test

#### Canon Rebel T3

Please rate the following tasks using the following scale. 1 for very easy, 3 for neither easy nor difficult, and 5 for very difficult. (Circle your answers)

Was the camera easy to use? (Circle your answer)

1      2      3      4      5  
Very Easy      Easy      Average      Difficult      Very Difficult

The required steps were what I expected. (Circle your answer)

Yes      No

The Instructions were helpful. (Circle your answer)

Yes      No

I would consider buying a Digital Single-Lens Reflex (DSLR) Camera after this demonstration. (Circle your answer)

Yes      No

The instructions were not enough and I will probably need a manual for the camera. (Circle your answer)

Yes      No

Participant# 5 Page 2

I would consider recommending the camera to a friend. **(Circle your answer)**

1      2      3      4      5  
 Strongly Agree      Agree      Neither      Disagree      Strongly Disagree

**Please rate each step on a scale of 1 to 5. With 1 being very easy, 3 being neither easy nor difficult, and 5 being very difficult.**

Step 1: Take off the lens cap **(Circle your answer)**

1      2      3      4      5  
 Very Easy      Easy      Average      Difficult      Very Difficult

Step 2: Insert the battery **(Circle your answer)**

1      2      3      4      5  
 Very Easy      Easy      Average      Difficult      Very Difficult

Step 3: Insert the SD card **(Circle your answer)**

1      2      3      4      5  
 Very Easy      Easy      Average      Difficult      Very Difficult

Step 4: Set the lens focus mode to Automatic-Focus(AF) **(Circle your answer)**

1      2      3      4      5  
 Very Easy      Easy      Average      Difficult      Very Difficult

Step 5: Set the power switch to ON **(Circle your answer)**

1      2      3      4      5  
 Very Easy      Easy      Average      Difficult      Very Difficult

Step 6: Set the mode dial to Manual Exposure **(Circle your answer)**

1      2      3      4      5  
 Very Easy      Easy      Average      Difficult      Very Difficult

Step 7: Focus on the water bottle (Aim the viewfinder center over the subject and press the shutter button halfway.) **(Circle your answer)**

1      2      3      4      5  
 Very Easy      Easy      Average      Difficult      Very Difficult

Step 8: Take the picture of the water bottle (Press the shutter button completely) **(Circle your answer)**

1      2      3      4      5  
 Very Easy      Easy      Average      Difficult      Very Difficult

Step 9: View the picture just taken **(Circle your answer)**

1      2      3      4      5  
 Very Easy      Easy      Average      Difficult      Very Difficult

Step 10: Turn the DSLR camera off **(Circle your answer)**

1      2      3      4      5  
 Very Easy      Easy      Average      Difficult      Very Difficult

Have you ever considered buying a Digital Single-Lens Reflex (DSLR) camera? **(Circle your answer)**

Yes      Maybe      No

Participant# 6

Page 1

### Post-Test

#### Canon Rebel T3

Please rate the following tasks using the following scale. 1 for very easy, 3 for neither easy nor difficult, and 5 for very difficult. (Circle your answers)

Was the camera easy to use? (Circle your answer)

Step 1: Take off the lens cap (Circle your answer)

1                      2                      3                      4                      5

Very Easy          Easy          Average          Difficult          Very Difficult

The required steps were what I expected. (Circle your answer)

Step 2: Insert the battery (Circle your answer)

1                      2                      3                      4                      5

Very Easy          Easy          Average          Difficult          Very Difficult

The Instructions were helpful. (Circle your answer)

Step 3: Insert the SD card (Circle your answer)

1                      2                      3                      4                      5

Very Easy          Easy          Average          Difficult          Very Difficult

Step 4: Set the lens focus mode to Auto-Focus (AF) (Circle your answer)

1                      2                      3                      4                      5

Very Easy          Easy          Average          Difficult          Very Difficult

I would consider buying a Digital Single-Lens Reflex (DSLR) Camera after this demonstration. (Circle your answer)

Step 5: Set the power switch to ON (Circle your answer)

1                      2                      3                      4                      5

Very Easy          Easy          Average          Difficult          Very Difficult

Step 6: Set the mode dial to Manual Exp. (Circle your answer)

1                      2                      3                      4                      5

Very Easy          Easy          Average          Difficult          Very Difficult

The instructions were not enough and I will probably need a manual for the camera. (Circle your answer)

Step 7: Aim the camera at the subject (Circle your answer)

1                      2                      3                      4                      5

Very Easy          Easy          Average          Difficult          Very Difficult

Step 8: Take the picture of the water bottle (Press the shutter button completely) (Circle your answer)

1                      2                      3                      4                      5

Very Easy          Easy          Average          Difficult          Very Difficult

Step 9: Review the picture just taken (Circle your answer)

1                      2                      3                      4                      5

Very Easy          Easy          Average          Difficult          Very Difficult

Participant# 6

Page 2

I would consider recommending the camera to a friend. **(Circle your answer)**

1                      2                      3                      4                      5  
 Strongly Agree      Agree                  Neither              Disagree              Strongly Disagree

Please rate each step on a scale of 1 to 5. With 1 being very easy, 3 being neither easy nor difficult, and 5 being very difficult.

Step 1: Take off the lens cap **(Circle your answer)**

1                      2                      3                      4                      5  
 Very Easy          Easy                  Average              Difficult              Very Difficult

Step 2: Insert the battery **(Circle your answer)**

1                      2                      3                      4                      5  
 Very Easy          Easy                  Average              Difficult              Very Difficult

Step 3: Insert the SD card **(Circle your answer)**

1                      2                      3                      4                      5  
 Very Easy          Easy                  Average              Difficult              Very Difficult

Step 4: Set the lens focus mode to Automatic-Focus(AF) **(Circle your answer)**

1                      2                      3                      4                      5  
 Very Easy          Easy                  Average              Difficult              Very Difficult

Step 5: Set the power switch to ON **(Circle your answer)**

1                      2                      3                      4                      5  
 Very Easy          Easy                  Average              Difficult              Very Difficult

Step 6: Set the mode dial to Manual Exposure **(Circle your answer)**

1                      2                      3                      4                      5  
 Very Easy          Easy                  Average              Difficult              Very Difficult

Step 7: Focus on the water bottle (Aim the viewfinder center over the subject and press the shutter button halfway.) **(Circle your answer)**

1                      2                      3                      4                      5  
 Very Easy          Easy                  Average              Difficult              Very Difficult

Step 8: Take the picture of the water bottle (Press the shutter button completely) **(Circle your answer)**

1                      2                      3                      4                      5  
 Very Easy          Easy                  Average              Difficult              Very Difficult

Step 9: View the picture just taken **(Circle your answer)**

1                      2                      3                      4                      5  
 Very Easy          Easy                  Average              Difficult              Very Difficult

Step 10: Turn the DSLR camera off **(Circle your answer)**

1                      2                      3                      4                      5  
 Very Easy          Easy                  Average              Difficult              Very Difficult

Have you ever considered buying a Digital Single-Lens Reflex (DSLR) camera? **(Circle your answer)**  
 Yes                      Maybe                      No

### Post-Test

#### I would consider recommending the Canon Rebel T3 (Circle your answer)

Please rate the following tasks using the following scale. 1 for very easy, 3 for neither easy nor difficult, and 5 for very difficult. (Circle your answers)

Was the camera easy to use? (Circle your answer)

1                      2                      3                      4                      5  
Very Easy              Easy              Average              Difficult              Very Difficult

The required steps were what I expected. (Circle your answer)

Yes                      No

The Instructions were helpful. (Circle your answer)

Yes                      No

I would consider buying a Digital Single-Lens Reflex (DSLR) Camera after this demonstration. (Circle your answer)

Yes                      No

The instructions were not enough and I will probably need a manual for the camera. (Circle your answer)

Yes                      No

Usability Pre-Test

I would consider recommending the camera to a friend. (Circle your answer)

1	2	3	4	5
Strongly Agree	Agree	Neither	Disagree	Strongly Disagree

Please rate each step on a scale of 1 to 5. With 1 being very easy, 3 being neither easy nor difficult, and 5 being very difficult.

Step 1: Take off the lens cap (Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 2: Insert the battery (Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 3: Insert the SD card (Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 4: Set the lens focus mode to Automatic-Focus(AF) (Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 5: Set the power switch to ON (Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 6: Set the mode dial to Manual Exposure (Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 7: Focus on the water bottle (Aim the viewfinder center over the subject and press the shutter button halfway.) (Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 8: Take the picture of the water bottle (Press the shutter button completely) (Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 9: View the picture just taken (Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Step 10: Turn the DSLR camera off (Circle your answer)

1	2	3	4	5
Very Easy	Easy	Average	Difficult	Very Difficult

Have you ever considered buying a Digital Single-Lens Reflex (DSLR) camera? (Circle your answer)

Yes

Maybe

No

### Post-Test

#### Canon Rebel T3

Please rate the following tasks using the following scale. 1 for very easy, 3 for neither easy nor difficult, and 5 for very difficult. (Circle your answers)

Was the camera easy to use? (Circle your answer)

<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5
Very Easy	Easy	Average	Difficult	Very Difficult

The required steps were what I expected. (Circle your answer)

<input checked="" type="radio"/> Yes	<input type="radio"/> No
--------------------------------------	--------------------------

The Instructions were helpful. (Circle your answer)

<input checked="" type="radio"/> Yes	<input type="radio"/> No
--------------------------------------	--------------------------

I would consider buying a Digital Single-Lens Reflex (DSLR) Camera after this demonstration. (Circle your answer)

<input checked="" type="radio"/> Yes	<input type="radio"/> No
--------------------------------------	--------------------------

The instructions were not enough and I will probably need a manual for the camera. (Circle your answer)

<input checked="" type="radio"/> Yes	<input type="radio"/> No
--------------------------------------	--------------------------



Usability Pre-Test

I would consider recommending the camera to a friend. **(Circle your answer)**

1                      2                      3                      4                      5  
 Strongly Agree      Agree                  Neither              Disagree              Strongly Disagree

**Please rate each step on a scale of 1 to 5. With 1 being very easy, 3 being neither easy nor difficult, and 5 being very difficult.**

Step 1: Take off the lens cap **(Circle your answer)**

1                      2                      3                      4                      5  
 Very Easy          Easy                  Average              Difficult              Very Difficult

Step 2: Insert the battery **(Circle your answer)**

1                      2                      3                      4                      5  
 Very Easy          Easy                  Average              Difficult              Very Difficult

Step 3: Insert the SD card **(Circle your answer)**

1                      2                      3                      4                      5  
 Very Easy          Easy                  Average              Difficult              Very Difficult

Step 4: Set the lens focus mode to Automatic-Focus(AF) **(Circle your answer)**

1                      2                      3                      4                      5  
 Very Easy          Easy                  Average              Difficult              Very Difficult

Step 5: Set the power switch to ON **(Circle your answer)**

1                      2                      3                      4                      5  
 Very Easy          Easy                  Average              Difficult              Very Difficult

Step 6: Set the mode dial to Manual Exposure **(Circle your answer)**

1                      2                      3                      4                      5  
 Very Easy          Easy                  Average              Difficult              Very Difficult

Step 7: Focus on the water bottle (Aim the viewfinder center over the subject and press the shutter button halfway.) **(Circle your answer)**

1                      2                      3                      4                      5  
 Very Easy          Easy                  Average              Difficult              Very Difficult

Step 8: Take the picture of the water bottle (Press the shutter button completely) **(Circle your answer)**

1                      2                      3                      4                      5  
 Very Easy          Easy                  Average              Difficult              Very Difficult

Step 9: View the picture just taken **(Circle your answer)**

1                      2                      3                      4                      5  
 Very Easy          Easy                  Average              Difficult              Very Difficult

Step 10: Turn the DSLR camera off **(Circle your answer)**

1                      2                      3                      4                      5  
 Very Easy          Easy                  Average              Difficult              Very Difficult

Have you ever considered buying a Digital Single-Lens Reflex (DSLR) camera? **(Circle your answer)**

Yes

Maybe

No