**User Requirements**

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| **Nr.** | **Requirement** | **Unit of measurement** | **Source** | **Date** | **Verification** |
| **Group 1** | **Measuring Ventilation** |  |  |  |  |
| 1.1 | Measures an Air volume of 15 to 25.5 mL. | mL |  |  | Measure the airvolume |
| 1.2 | Ventilation Rate is 8 to 10 breaths per minute. | min-s | (CPR Guidelines – Infant, 2006) |  |  |
| 1.3 | Measures the pauses between ventilations |  |  |  |  |
| **Group 2** | **Measuring Compression** |  |  |  |  |
| 2.1 | Measure if the student is compressing or releasing the manikin (Chest recoil) |  |  |  |  |
| 2.2 | Measure if the compression depth is 1/3 of chest, about 4 cm. | cm | (NHS, 2019) |  |  |
| 2.3 | The finger position is measured to ensure that the pressure is applied at the center of the thorax. |  |  |  |  |
| 2.4 | Measure if the compression rate is measured between 100-120 times per minute |  |  |  |  |
| 2.5 | Measure the compression Duty cycle (50%) | % |  |  |  |
| **Group 3** | **Integration** |  |  |  |  |
| 3.1 | Calculate the Ventilation/Compression Ratio (Must be 2/15) |  |  |  |  |
| 3.2 | Compression Fraction |  |  |  |  |
| 3.3 | Monitoring that CPR is maintained for at least 2 minutes | minutes |  |  |  |

*CPR Guidelines – Infant*. (2006). Retrieved from emsonline: http://www.emsonline.net/cbtinstructor/assets/2006CBTVersion-Infant.pdf

NHS. (2019, 01 02). *How to resuscitate a child*. Retrieved from NHS: https://www.nhs.uk/conditions/baby/first-aid-and-safety/first-aid/how-to-resuscitate-a-child/#:~:text=Push%20down%204cm%20(for%20a,and%20give%202%20effective%20breaths.

**Wishes:**