

# Kipech Mounting

<b>1. Introduction .....</b>	<b>2</b>
1.1 Goal for Assignment.....	2
1.2 Business Description.....	2
1.3 Process assessment planning & Data collection methods.....	4
<b>2. Process Identification.....</b>	<b>4</b>
2.1 Business Problems Identified.....	5
2.1.1 Analysis of Quality Assurance Challenges.....	5
2.1.2 Current Quality Challenges in the Assembly Process.....	5
2.1.3 Key Issues Identified .....	5
2.2 Description of the main business processes & relationships .....	6
2.3 Identifying processes relevant to the problem.....	7
2.4 Selected processes for improvement.....	9
<b>3. Process Discovery .....</b>	<b>10</b>
3.1 Description of the production process using BPMN.....	11
<b>4. Process Analysis .....</b>	<b>11</b>
4.1 Qualitative- & quantitative process analysis.....	12
4.1.1 Value-Added Analysis .....	12
4.1.2 Issue Documentation and Analyses .....	14
4.1.3 Root-Cause Analysis.....	14
4.1.4 Cause-Effect Diagram.....	14
4.2 Quantitative Process Analysis.....	14
4.2.1 Flow Analysis .....	14
4.3 Analysis of data quality in the process .....	15
4.4 Discussion on how data analytics could support the analysis using event logs.....	15
<b>5. Process redesign .....</b>	<b>16</b>
5.1 Identify possible process improvement initiatives for the identified issues .....	16
5.2 Selected process improvement initiatives .....	17
5.3 Describe the new process (TO-BE model).....	18
5.3.1 Scanners .....	18
5.3.2 Human Check .....	18
5.4 Discussion of costs, benefits, & risks of selected process changes .....	18
5.4.1 Risks .....	19
5.4.2 Costs .....	19

5.4.3 Benefits .....	19
5.5 Discussion on how additional use of data analytics could improve the process .....	19
<b>6. Process Implementation Plan .....</b>	<b>19</b>
6.1 Discuss implementation strategy, activities, & timeframe .....	20
6.1.1 Strategy .....	20
6.1.2 Activities & timeframe (in gantt diagram).....	21
<b>7. Process monitoring plan .....</b>	<b>21</b>
7.1 Discussion off which data should be analyzed of the new process in operation.....	21
<b>8. Process continuity .....</b>	<b>22</b>
8.1 Define business process continuity plans .....	22
8.2 Discussion on how data science can support process continuity initiatives.....	22
<b>9. Conclusions (after everything done 21 november) .....</b>	<b>23</b>
9.1 Brief summary .....	23