

## LIST OF FIGURES

Figure 1. 1 Flow Chart Cutting Plasma Process .....	15
Figure 1. 2 Target Chart of Reduction problem of Plasma Cutting process .....	18
Figure 2. 1 Standard Symbol of Flow Chart .....	22
Figure 2.2 Classification of FMEA (Source : Liu, H. C. (2019). Improved FMEA Mehod for Proactive Healthcare Risk Analysis. ....	25
Figure 3. 1 Conseptual Model.....	30
Figure 3. 2 Systematic Research .....	32
Figure 4. 1 Plasma Cutting Mechanisme .....	36
Figure 4. 2 Chart of problem at every activity .....	39
Figure 4. 3 Plasma Cutting Proses .....	40
Figure 4. 4 Plasma Cutting Proses .....	40
Figure 4. 5 Plasma Cutting Proses .....	41
Figure 4. 6 Plasma Cutting Proses .....	41
Figure 4. 7 Type of Plasma Cutting Machine ( source : (OTC Daihen Corporation, 2006)).....	42
Figure 4. 8 Machine that used on process Plasma Cutting in PT.Toyota Motor Manufacturing Indonesia .....	42
Figure 4. 9 Part Plasma Cutting Torch ( source : (OTC Daihen Corporation, 2006)).....	43
Figure 4. 10 Causes Analysis of Plasma TIP damaged.....	53
Figure 4. 11 Machine Plasma Operation, Source : (OTC Daihen Corporation, 2006) .....	53
Figure 4. 12 Machine Plasma Operation, Source : (OTC Daihen Corporation, 2006) .....	54
Figure 4. 13 Causes Analysis of Torch Plasma Cable broken .....	55
Figure 4. 14 Bending Radius of Torch Plasma Cable, source : (OTC Daihen Corporation, 2006) .....	55
Figure 4. 15 Bending Radius of Torch Plasma Cable, source : (OTC Daihen Corporation, 2006) .....	56
Figure 4. 20 Proposed Design .....	67
Figure 4. 21 Torch Cable that already compare with Clamp .....	68