IMPLEMENTATION OF QUICK CHANGEOVER ON CHANGING NEW MODEL FOR CNC MACHINE

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BACHELOR OF MECHATRONICS ENGINEERING (HONS.) COLLABORATION PROGRAMME WITH HSKA, GERMANY

UNIVERSITI MALAYSIA PAHANG
IMPLEMENTATION OF QUICK CHANGEOVER ON CHANGING NEW MODEL FOR CNC MACHINE

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Thesis submitted in fulfilment of the requirements for the award of the Bachelor of Mechatronics Engineering (HONS.) Collaboration Programme with HsKA, Germany

Faculty of Manufacturing Engineering
UNIVERSITI MALAYSIA PAHANG

MARCH 2018
SUPERVISOR’S DECLARATION

I hereby declare that I have checked this thesis and, in my opinion, this thesis is adequate in terms of scope and quality for the award Bachelor of Mechatronics Engineering (Hons.) Collaboration Programme with HsKA, Germany.

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Date: 

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STUDENT’S DECLARATION

I hereby declare that the work in this thesis is based on my original work except for quotations and citations which have been duly acknowledged. I also declare that it has not been previously or concurrently submitted for any other degree at Universiti Malaysia Pahang or any other institutions.

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(Student’s Signature)

Full Name : NOR AMIRAH BINTI MOHAMAD RADZUAN
ID Number : HA13007
Date :
Specially dedicated to

My father (Mohamad Radzuan bin Mat Nor)

My mother (Ruhani binti Junoh)

My beloved families

And

My Lecturers

Thank You!
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<tr>
<td>m</td>
<td>meter</td>
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<tr>
<td>h</td>
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</tr>
<tr>
<td>min</td>
<td>minutes</td>
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<tr>
<td>s</td>
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# LIST OF ABBREVIATIONS

<table>
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<tr>
<th>Abbreviation</th>
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<tr>
<td>CNC</td>
<td>Computer Numerical Control</td>
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<tr>
<td>SDN. BHD</td>
<td>Sendirian Berhad</td>
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<td>LPS</td>
<td>Lean Production System</td>
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<td>QCO</td>
<td>Quick Changeover</td>
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<tr>
<td>SMED</td>
<td>Single Minute Exchange of Die</td>
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<tr>
<td>EMS</td>
<td>Electronics Manufacturing Services</td>
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<td>TPS</td>
<td>Toyota Production System</td>
</tr>
<tr>
<td>JIT</td>
<td>Just-In-Time</td>
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<tr>
<td>TPM</td>
<td>Total Productive Maintenance</td>
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<tr>
<td>WIP</td>
<td>Work in Process</td>
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<tr>
<td>RM</td>
<td>Malaysian Ringgit</td>
</tr>
<tr>
<td>USD</td>
<td>United States Dollar</td>
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