

## Course Outline Of Automation Technician - Level 2

No.	Module	Topic	Hours	Days
1.	<b>Workplace Safety</b>	i.Safety identification & demonstration ii.Safe working area iii.Safety procedure on handling equipment	35	5
2	<b>Mechanical System</b>	i.Mechanical equipment and measuring tools ii.Machine and special tools iii.Drive & transmission equipment iv.Maintenance Activities	175	25
3.	<b>Electronic Control Circuit</b>	i.Introduction of basic electronic ii.Type of electronic components and instrument iii.Design electronic circuits iv.Soldering and desoldering techniques v.Troubleshoot and replacing components vi.Detection System vii.PIC Board Circuit	140	20
4.	<b>Electrical Control Circuit</b>	i.Introduction to Electrical System ii.Check condition of basic component iii.Industrial electrical control circuit iv.Types of industrial motor v.Motor control circuit	70	10
5.	<b>Pneumatic &amp; Hydraulic System</b>	i.Introduction to pneumatic & hydraulic system ii.Pneumatic & electro pneumatic components iii.Identify circuit for pneumatic & electro pneumatic iv.Design pneumatic and electro pneumatic circuit v.Knowledge on Pneumatic Source vi.Hydraulic & electro hydraulic components vii.Identify circuit for pneumatic & electro pneumatic viii.Design hydraulic & electro hydraulic circuit ix.Bleeding process on pump	140	20
7.	<b>Programmable Logic Control (PLC)</b>	i.Introduction of PLC ii.Input / output device iii.Interpret PLC Circuit iv.PLC communication	70	10
8.	<b>Introduction Of Robotic</b>	i.Introduction of Industrial Robotic ii.Type and functionality of Industry Robot iii.Check and record condition of Robot	10	5

<b>No.</b>	<b>Module</b>	<b>Topic</b>	<b>Hours</b>	<b>Days</b>
<b>9.</b>	<b>Technical Drawing / CAD Design</b>	i.Type of technical drawing ii.Geometrical drawing iii.Orthographic & Isometric Drawing iv.Basic using on AutoCAD v.2D CAD Design	<b>70</b>	<b>10</b>
<b>10.</b>	<b>Core Abilities Level 2</b>	i.Manage work activities ii.Managing system iii.Handling information iv.Collaborate with colleagues	<b>70</b>	<b>10</b>
<b>11.</b>	<b>Technical English</b>	i.Grammar – Verb Tenses ii.Grammar – Linguistic Items iii.Functions iv.Skills	<b>35</b>	<b>5</b>
<b>12.</b>	<b>Prepare folio</b>		<b>35</b>	<b>5</b>
<b>Total</b>			<b>840</b>	<b>120</b>