



Training for Industry

NSDP

35 Years of professional training excellence

# Metal Industries Company Limited

Presents

Professional Training Programme – 45 contact hours (5 weeks) - 5:00 – 9:00 p.m.

Schedule January - February 2011

Course	Start Date	Course	Start Date
<b>PLC Level I</b> <ul style="list-style-type: none"> <li>Introduction to Control Logic</li> <li>Schematics, circuits, symbols</li> <li>Physical control logic decision making</li> <li>Convert relay logic to PLC logic</li> <li>Writing PLC programmes</li> <li>Introduction to Electro Pneumatics</li> </ul>	25 <sup>th</sup> Jan 2011 (Tue & Thurs) \$3,000.00	<b>IM Electrical Power &amp; Controls Level I</b> <ul style="list-style-type: none"> <li>Maintenance and repairs of motors, starters, etc.</li> <li>Relay Control Circuits</li> <li>Introduction to PLC</li> <li>Installation of power and control systems</li> <li>DIN and NEMA control standards</li> <li>Electrical Drawing and Blue Print Reading</li> </ul>	24 <sup>th</sup> Jan 2011 (Mon & Wed) \$3,000.00
<b>CNC</b> <ul style="list-style-type: none"> <li>Introduce advanced techniques and theories in general machining</li> <li>Emphasis on precision machining</li> <li>Introduce CNC machine techniques</li> <li>Manipulate CNC programmes and special codes</li> </ul>	25 <sup>th</sup> Jan 2011 (Tue & Thurs) \$3,000.00	<b>Instrumentation Level I</b> <ul style="list-style-type: none"> <li>Industrial Safe Work Practices</li> <li>Process Variables &amp; Instruments (Pressure, Temperature, Level, Flow)</li> <li>Control Valve Technology</li> <li>Process and Instrumentation Diagrams (P&amp;ID's)</li> <li>Control Systems and Control Modes</li> <li>Basic Instrumentation Fitting Techniques</li> </ul>	24 <sup>th</sup> Jan 2011 (Mon & Wed) \$3,000.00
<b>Fluid Power and Controls (Hydraulics/Pneumatics) Level I</b> <ul style="list-style-type: none"> <li>Introduction to Fluid Power Systems</li> <li>Graphical symbols of fluid control</li> <li>Pumps, compressors, valves and actuators</li> </ul>	25 <sup>th</sup> Jan 2011 (Tue & Thurs) \$3,000.00	<b>IM Refrigeration and Air-Conditioning Level I</b> <ul style="list-style-type: none"> <li>Methods of mechanical cooling</li> <li>AC/REF cooling cycles</li> <li>Gas, heat, cooling &amp; expansion laws</li> <li>Electrical circuitry, welding, gassing</li> </ul>	24 <sup>th</sup> Jan 2011 (Mon & Wed) \$3,000.00
<b>Process Plant Operations</b> <ul style="list-style-type: none"> <li>Process Plant Safety</li> <li>Process Equipment Theory</li> <li>Basic Mathematics and Science</li> <li>Fundamentals of Instrumentation</li> <li>Process Control and Characteristics</li> </ul>	25 <sup>th</sup> Jan 2011 (Tue & Thurs) \$3,000.00	<b>Welding Level 1</b> <ul style="list-style-type: none"> <li>Welding Safety</li> <li>Electrode Classification</li> <li>Electric Fundamentals</li> <li>Introduction to Welding Metallurgy</li> <li>Introduction to NDT methods, Q.C.</li> <li>Symbols, blueprint reading, inspection</li> </ul>	24 <sup>th</sup> Jan 2011 (Mon & Wed) \$3,000.00
<b>Welding Level 2</b> <ul style="list-style-type: none"> <li>Codes and standards</li> <li>Introduction to Welding metallurgy</li> <li>Weld discontinuities</li> <li>NDT Methods and Procedures</li> </ul>	25 <sup>th</sup> Jan 2011 (Tue & Thurs) \$3,500.00	<b>Industrial Maintenance (General) Level 1</b> <ul style="list-style-type: none"> <li>Preventative Maintenance vs. Repairs</li> <li>Introduction to maintenance welding</li> <li>Fluidics, Mechanical, Electrical Systems</li> <li>Project</li> </ul>	24 <sup>th</sup> Jan 2011 (Mon & Wed) \$3,200.00
<b>Welding Level 3 MIG/TIG</b> <ul style="list-style-type: none"> <li>Welding Safety – MIG and TIG Fundamentals</li> <li>Welding Metallurgy</li> <li>Welding symbols and blue print reading</li> <li>Welding Inspection and Quality Control</li> <li>Codes/Standards/Procedures for inspection</li> </ul>	22 <sup>nd</sup> Jan 2011 (Sat) \$3,800.00  (8a.m.–4p.m.)	<b>AUTOCAD</b> <ul style="list-style-type: none"> <li>The AutoCAD Screen</li> <li>The Co-Ordinate System</li> <li>Basic Drawing and Editing Commands</li> <li>The Function Keys</li> <li>Editing and Modifying</li> <li>Plotting and Printing</li> </ul>	24 <sup>th</sup> Jan 2011 (Mon & Wed) \$3,00.00

**NB: ALL FEES ARE DUE BEFORE START OF PROGRAMME**

**REGISTRATION FEE: \$200.00 ( non-refundable, included in overall Cost fee)**

*Highly qualified Programme Facilitators with practical industry experience  
Multi-skilled, experienced Engineers, Technicians and German Trained Meisters*

**Register Now!!!**

**Target: –** Engineers, Technicians and/or Experienced Practitioners  
Some pre-qualifications may apply

**Venues: –** At Macoya – unless otherwise stated  
E-Mail Address-

663 – 4642 Ext: 3130 or 3156

[ljackson@mic.co.tt](mailto:ljackson@mic.co.tt) or [mbranche@mic.co.tt](mailto:mbranche@mic.co.tt)

Days are subject to change without prior notice.

**Ask about our Technology Cluster Programme; Custom designed to fit your needs**