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## CFC-Solar 2011-2012 In House Course Schedule

All of these courses can be held at your facility.  
Call for pricing on Customized courses to your machine specific equipment.

Hydraulic Courses	Length	Dates	Cost		
Introduction to Industrial Fluid Power – Concepts and Components	2 days	Nov 3 – 4, 2011	\$695.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Jan. 9 - 10, 2012			
		Apr. 12 – 13, 2012			
Level 1 Industrial Hydraulics – In Depth Fundamentals	3 days	Nov 7 – 9, 2011	\$995.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Feb. 6 – 8, 2012			
		May 14 – 16, 2012			
	5 days	Nov 7 – 11, 2011	\$1,495.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Feb. 6 – 10, 2012			
		May 14 – 18, 2012			
Level 2 Industrial Hydraulics – Advanced Maintenance and Repair	3 days	Oct 24 – 26, 2011	\$995.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Mar. 5 – 7, 2012			
	5 days	Oct 24 – 28, 2011	\$1,495.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Mar. 5 – 9, 2012			
Level 3 Industrial Hydraulics – Intro to Design and Sizing	5 days	Call for dates	\$1,495.00	<a href="#">Register</a>	<a href="#">View Outline</a>
Introduction to Mobile Fluid – Power Concepts and Components	2 days	Jan. 5 – 6, 2012	\$695.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Apr. 9 – 10, 2012			
Level 1 Mobile Hydraulics - In-Depth Fundamentals	3 days	Jan. 16 – 18, 2012	\$995.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Apr. 23 – 25, 2012			
	5 days	Jan. 16 – 20, 2012	\$1,495.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Apr. 23 – 27, 2012			
Level 2 Mobile Hydraulics – Advanced Maintenance & Repair	3 days	Nov 28 – 30, 2011	\$995.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Feb. 20 – 22, 2012			
	5 days	Nov 28 – Dec 2, 2011	\$1,495.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Feb. 20 – 24, 2012			

<b>Level 3 Mobile Hydraulics – Intro to Design and Sizing</b>	3 days	Call for dates	\$995.00	<a href="#">Register</a>	<a href="#">View Outline</a>
	5 days	Call for dates	\$1,495.00	<a href="#">Register</a>	<a href="#">View Outline</a>

<b>Hydraulic Courses Length</b>	<b>Length</b>	<b>Dates</b>	<b>Cost</b>		
<b>Hydraulic Conductors - Fittings, Tube, Pipe, Hose and Leak Prevention</b>	3 days	Dec 14 – 16, 2011	\$995.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Mar 14 – 16, 2012			
		June 11 – 13, 2012			
<b>Troubleshooting Using Industrial Hydraulic Schematics</b>	3 days	Nov 28 – 30, 2011	\$995.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Feb 15 – 17, 2012			
		June 4 – 6, 2012			
<b>Troubleshooting Mobile Equipment Using Hydraulic Schematics</b>	3 days	Dec 7 – 9, 2011	\$995.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Mar 26 – 28, 2012			
		June 27 – 29, 2012			
<b>Troubleshooting Mobile Hyd. Systems</b>	2 days	Dec 5 – 6, 2011	\$695.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Mar 29 – 30, 2012			
		June 25 – 26, 2012			
<b>Hydraulic Pump Analysis</b>	2 days	Dec 12 – 13, 2011	\$695.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Mar 12 – 13, 2012			
		June 14 – 15, 2012			
<b>Cartridge Slip-in and Screw-in Logic Valve Technology</b>	3 days	Jan 11 – 13, 2012	\$995.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Apr 2 – 4, 2012			
<b>Electro-Hydraulics - Proportional and Servo Valves</b>	3 days	Nov 2 – 4, 2011	\$995.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Feb 1 – 3, 2012			
<b>Hydrostatic Closed Loop Systems</b>	2 days	Dec 19 – 20, 2011	\$695.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Mar 1 – 2, 2012			
		June 18 – 19, 2012			
<b>Hydrostatic Closed Loop Systems for Engineers</b>	3 days	May 21 – 23, 2012	\$995.00	<a href="#">Register</a>	<a href="#">View Outline</a>
<b>Maintenance - Hydraulic Safety</b>	1 day	Dec 1, 2011	\$395.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Feb 9, 2012			
		May 11, 2012			

Plastics Courses	Length	Dates	Cost		
Predictive and Preventative Maintenance	3 days	Dec 19 – 21, 2011	\$995.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Feb 1 – 3, 2012			
		May 30 – June 1, 2012			

Pneumatic Courses	Length	Dates	Cost		
Introduction to Pneumatics – Concepts and Components	2 days	Oct 3 – 4, 2011	\$695.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Jan 3 – 4, 2012			
		Apr 23 – 24, 2012			
Level 1 Pneumatics – In Depth Fundamentals	3 days	Oct 10 – 12, 2011	\$995.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Feb 13 – 15, 2012			
		May 21 – 23, 2012			
Level 1 Pneumatics – In Depth Fundamentals	5 days	Oct 10 – 14, 2011	\$1,495.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Feb 13 – 17, 2012			
		May 21 – 25, 2012			
Level 2 Pneumatics – Advanced Maintenance and Repair	3 days	Nov 14 – 16, 2011	\$995.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Mar 12 – 14, 2012			
		June 11 – 13, 2012			
Level 2 Pneumatics – Advanced Maintenance and Repair	5 days	Nov 14 – 18, 2011	\$1,495.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Mar 12 – 16, 2012			
		June 11 – 15, 2012			
Level 3 Pneumatics – Design and Sizing	3 days	Call for dates	\$995.00	<a href="#">Register</a>	<a href="#">View Outline</a>
	5 days	Call for dates	\$1,495.00	<a href="#">Register</a>	<a href="#">View Outline</a>
Pneumatic Troubleshooting Using Schematics	2 days	Oct 5 – 6, 2011	\$695.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Jan 30 – 31, 2012			
		May 3 – 4, 2012			
Air Logic Pneumatics	2 or 3 days	Call for dates	Call for price	<a href="#">Register</a>	<a href="#">View Outline</a>
Electro Pneumatics	2 or 3 days	Call for dates	Call for price	<a href="#">Register</a>	<a href="#">View Outline</a>

Mechanical Courses	Length	Dates	Cost		
Introduction to Lubrication	2 days	Oct 31 – Nov 1, 2011	\$695.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Feb 13 – 14, 2012			
		May 7 – 8, 2012			
Principles of Machining	2 days	Nov 17 – 18, 2011	\$695.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Mar 22 – 23, 2012			
		June 7 – 8, 2012			

Electrical Courses	Length	Dates	Cost		
AC and DC Electrical Fundamentals and Safety	3 days	Oct 31 – Nov 2, 2011	\$995.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Feb 27 – 29, 2012			
AC Power and NEC Codes	3 days	Dec 5 – 7, 2011	\$995.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Mar 26 – 28, 2012			
		June 20 – 22, 2012			
AC Motor Controls and Relay Ladder Logic	5 days	Oct 17 – 21, 2011	\$1,495.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Feb 20 – 24, 2012			
Basic Electrical Systems Based on 2008 National Electric Code	5 days	Call for dates	\$1,495.00	<a href="#">Register</a>	<a href="#">View Outline</a>
Variable Frequency Drives	3 days	Dec 14 – 16, 2011	\$995.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Mar 7 – 9, 2012			
		June 25 – 27, 2012			
Fundamentals of DC Electronics, Sensors and Instrumentation	3 days	Oct 26 – 28, 2011	\$995.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Feb 6 – 8, 2012			
Troubleshooting Electrical Systems	5 days	Oct 10 – 14, 2011	\$1,495.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Jan 16 – 20, 2012			
		May 7 – 11, 2012			
Electrical Maintenance, Schematics & Troubleshooting including Motor and Motor Control Circuits	5 days	Jan 23 – 27, 2012	\$1,495.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Apr 16 – 20, 2012			
Introduction to Mobile Electric – Using a Multimeter	1 day	Dec 8, 2011	\$395.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Mar 5, 2012			
		June 28, 2012			
Level 1 Mobile Electric	3 days	Oct 17 – 19, 2011	\$995.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Apr 9 – 11, 2012			
	5 days	Oct 17 – 21, 2011	\$1,495.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Apr 9 – 13, 2012			
Level 2 Mobile Electric	3 days	May 14 – 16, 2012	\$995.00	<a href="#">Register</a>	<a href="#">View Outline</a>
	5 days	May 14 – 18, 2012	\$1,495.00		
Electrical Controls Including Safety and Test Equipment	3 days	Jan 9 – 11, 2012	\$995.00	<a href="#">Register</a>	<a href="#">View Outline</a>
	5 days	Jan 9 – 13, 2012	\$1,495.00		

Electrical Courses	Length	Dates	Cost		
Electric Motor Drives	3 days	Nov 14 – 16, 2011	\$995.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Mar 19 – 21, 2012			
		June 4 – 6, 2012			
Power Distribution	5 days	Nov 7 – 11, 2011	\$1,495.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Mar 19 – 23, 2012			
		June 18 – 22, 2012			

PLC Courses	Length	Dates	Cost		
Level 1 PLC Fundamentals	3 days	Oct 5 – 7, 2011	\$995.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Jan 4 – 6, 2012			
		Apr 25 – 27, 2012			
Level 2 PLC Basic Programming	5 days	Call for dates	\$1,495.00	<a href="#">Register</a>	<a href="#">View Outline</a>
Level 3 PLC Program Design	5 days	Call for dates	\$1,495.00	<a href="#">Register</a>	<a href="#">View Outline</a>

Boiler System Courses	Length	Dates	Cost		
Boiler & Steam System Fundamentals	1 day	Call for dates	Call for price	<a href="#">Register</a>	<a href="#">View Outline</a>
Steam Boiler Operation, Maintenance and Troubleshooting	2 days	Call for dates	Call for price	<a href="#">Register</a>	<a href="#">View Outline</a>
Steam Distribution & Condensate Return Systems	1 day	Call for dates	Call for price	<a href="#">Register</a>	<a href="#">View Outline</a>

Other Courses	Length	Dates	Cost		
Rigging & Loading Fundamentals	1 day	Nov 21, 2011	\$395.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Jan 30, 2012			
		Apr 11, 2012			
Welding	1 day	Nov 22, 2011	\$395.00	<a href="#">Register</a>	<a href="#">View Outline</a>
		Jan 31, 2012			
		Apr 5, 2012			

International Fluid Power Society Certification	Length	Dates	Cost		
<b>Conductor and Connector Review</b>	2 days	Feb 27 – 28, 2012 Testing at 1pm on 2nd day	\$595.00 Plus 2 test fees	<a href="#">Register</a>	<a href="#">View Outline</a>
<b>Job Performance Review (Hands-on Only)</b>	2 days	Jan 23 – 24, 2012 Testing at 1pm on 2nd day	\$595.00 Plus 1 test fee	<a href="#">Register</a>	
<b>Industrial Hydraulic Mechanic Review</b>	2 ½ days	Feb 29 – Mar 2, 2012 Testing at 1pm on 3 <sup>rd</sup> day	\$695.00 Plus test fees	<a href="#">Register</a>	<a href="#">View Outline</a>
<b>Mobile Hydraulic Mechanic Review</b>	2½ days	Jan 25 – 27, 2012 Testing at 1pm on 3 <sup>rd</sup> day	\$695.00 Plus test fees	<a href="#">Register</a>	<a href="#">View Outline</a>
<b>Pneumatic Mechanic Review</b>	2½ days	Call for dates	\$695.00 Plus test fees	<a href="#">Register</a>	<a href="#">View Outline</a>
<b>Industrial Hydraulic Technician Review</b>	2 ½ days	Call for dates Testing at 1pm on 3 <sup>rd</sup> day	\$695.00 Plus test fees	<a href="#">Register</a>	<a href="#">View Outline</a>
<b>Mobile Hydraulic Technician Review</b>	2 ½ days	Call for dates Testing at 1pm on 3 <sup>rd</sup> day	\$695.00 Plus test fees	<a href="#">Register</a>	<a href="#">View Outline</a>
<b>Pneumatic Technician Review</b>	2½ days	Call for dates	\$695.00 Plus test fees	<a href="#">Register</a>	<a href="#">View Outline</a>
<b>Electronic Controls Specialist Review</b>	3 ½ days	Apr 2 – 5, 2012 Testing at 1 pm on 4 <sup>th</sup> day	\$1,495.00 Plus test fees	<a href="#">Register</a>	<a href="#">View Outline</a>
<b>Hydraulic Specialist Review</b>	2½ days	Testing at 1pm on 3 <sup>rd</sup> day	\$795.00 Plus test fees	<a href="#">Register</a>	<a href="#">View Outline</a>
<b>Pneumatic Specialist Review</b>	2½ days	Call for dates Testing at 1pm on 3 <sup>rd</sup> day	\$795.00 Plus test fees	<a href="#">Register</a>	<a href="#">View Outline</a>
<b>ALL NEW ONLINE – Evenings</b>	6 nights	Tuesday and Thursday Oct 4, 6, 11, 13, 18, 20 2011	\$895/IFPS Member	<a href="#">Register</a>	
<b>Hydraulic Specialist Review</b>		Monday and Wednesday Mar 12,14,19,21,26,28, 2012	\$995/IFPS Non Member Plus test fees		
<b>ALL NEW ONLINE – Evenings</b>	6 nights	Monday and Wednesday Oct 3, 5, 10, 12, 17, 19 2011	\$895/IFPS Member	<a href="#">Register</a>	
<b>Pneumatic Specialist Review</b>		Tuesday and Thursday Mar 13,15,20,22,27,29, 2012	\$995/IFPS Non Member Plus test fees		

Any of the above Certification classes can be taught online with a minimum of 10 students.