



JOHNSON CONTROLS INC.

1990-2013 Credit Recommendation Guide

The following courses have been evaluated by Corporate Articulation to potentially fulfill General Education or Elective credits for an Undergraduate Degree. In order to receive any of the credits recommended below, students should submit supporting documents to Prior Learning Assessment. For more information on PLA visit: ecampus.phoenix.edu/pla or contact the department toll free at 866-440-4707.

There are fees associated with your PLA submission. However, you may be eligible for PLA benefits. Please contact your Finance Advisor for more information.

PLA will not award credit for certifications or coursework that duplicates the content of credits earned through PLA, transfer credit, National Testing Program credit or University of Phoenix.

Clock hour to semester credit hour conversions are made by the University using current U.S. Department of Education standards.

University of Phoenix Equivalency: General Education or Elective category to which credit can be applied.

Combinable: Courses may only be combined with courses of similar content and General Education/Elective areas.

Non-Academic: Lack of college level theory and/or principle necessary for credit recognition. Company specific and skill-based training.

Too Few Hours: Courses/training that cannot receive credit because they are less than 1 hour total in length. Similar content in a 1(+) hour timeframe may be eligible for credit.

Applicable Hours: Indicates the total amount of actual learning time. Any breaks or lunch time included in the initial clock hours have been removed.

Updated: 10/29/2018

The credit awards shown are for informative purposes, state and program limits on Prior Learning Assessment credit may apply.

Course Number	Course Title	Delivery Method	Course Year	Course Length	Applicable Hours	Credits Recommended	University of Phoenix Equivalency
C-622-EN	Engineering - HVAC Systems	Classroom	01/1995-12/2013	76 Hour(s)	76	5.0	Science/Technology
C-648-EN	HVAC Operations & Troubleshooting	Classroom	01/1985-12/2013	76 Hour(s)	76	5.0	Interdisciplinary/Elective
C-719-EN	Metasys GPL Programming	Classroom	01/1990-12/2013	36 Hour(s)	36	2.0	Science/Technology
C-765-EN	ASC/C Tools Installation/Engineering	Classroom	01/1996-12/2013	36 Hour(s)	36	2.0	Interdisciplinary/Elective
C-768-EN	Advance DX-9100 Engineering	Classroom	01/2000-12/2013	36 Hour(s)	36	2.0	Science/Technology
C-769-EN	DX-9100 Installation / Engineering	Classroom	01/1996-12/2013	36 Hour(s)	36	2.0	Science/Technology
C-5203-EN	P2000 Network Controller Field Hardware Installation/Configuration	Classroom	01/2002-12/2013	16 Hour(s)	16	1.0	Interdisciplinary/Elective
C-5002-EN	P200 Configuration, Operation and Maintenance	Classroom	01/2004-12/2013	36 Hour(s)	36	2.0	Interdisciplinary/Elective
C-5202-EN	P2000 Field Hardware Installation & Configuration	Classroom	01/2002-12/2013	16 Hour(s)	16	1.0	Interdisciplinary/Elective

Course Number	Course Title	Delivery Method	Course Year	Course Length	Applicable Hours	Credits Recommended	University of Phoenix Equivalency
C-5003-EN	Orientation to LON Works HVAC Systems	Classroom	01/2002-12/2013	4 Hour(s)	4	Combinable	Interdisciplinary/Elective
C-5004-EN	Security Technician Basics	Classroom	01/2005-12/2013	40 Hour(s)	40	2.5	Interdisciplinary/Elective
C-7001-EN	Metasys Extended Architecture Operations Introduction	Self-Paced	01/2004-12/2013	2 Hour(s)	1	Combinable	Interdisciplinary/Elective
C-7002-EN	Metasys Extended Architecture Operations Lab	Self-Paced	01/2003-12/2013	11 Hour(s)	5.5	Combinable	Interdisciplinary/Elective
C-7004-EN	Area-Based Metasys Extended Architecture Seminar	Classroom	01/2004-12/2013	36 Hour(s)	36	2.0	Interdisciplinary/Elective
C-7010-EN	Configuring Metasys System LN Series Controllers	Classroom	01/2004-12/2013	36 Hour(s)	36	2.0	Interdisciplinary/Elective
C-7019-EN	DX-9100 Hardware	Classroom	01/2004 - 12/2012	2 Hour(s)	2	Combinable	Interdisciplinary/Elective
C-7020-EN	DX-9100 Front Panel Operations	Classroom	01/2004 - 12/2012	37 Hour(s)	37	2.0	Interdisciplinary/Elective
C-7021-EN	Servicing the DX-9100 Controller	Classroom	01/2004 - 12/2012	2 Hour(s)	2	Combinable	Interdisciplinary/Elective
C-7022-EN	Servicing the VMA Controller	Classroom	01/2004 - 12/2012	3 Hour(s)	3	Combinable	Interdisciplinary/Elective
C-7023-EN	Servicing the AHU Controller	Classroom	01/2004 - 12/2012	3 Hour(s)	3	Combinable	Interdisciplinary/Elective
C-7024-EN	Servicing the UNT Controller	Classroom	01/2004 - 12/2012	3 Hour(s)	3	Combinable	Interdisciplinary/Elective
C-7025-EN	Controls Basic for Scheduled Service Visits	Classroom	01/2004 - 12/2012	1 Hour(s)	1	Combinable	Interdisciplinary/Elective
C-7026-EN	Servicing the VAV Controller	Classroom	01/2004 - 12/2012	3 Hour(s)	3	Combinable	Interdisciplinary/Elective
C-7019-EN	DX-9100 Hardware	Self-Paced	01/2012-12/2013	1 Hour(s)	0.5	Combinable	Interdisciplinary/Elective
C-7020-EN	DX-9100 Front Panel Operations	Self-Paced	01/2012-12/2013	1.5 Hour(s)	0.75	Combinable	Interdisciplinary/Elective
C-7021-EN	Servicing the DX-9100 Controller	Self-Paced	01/2012-12/2013	1 Hour(s)	0.5	Combinable	Interdisciplinary/Elective
C-7022-EN	Servicing the VMA Controller	Self-Paced	01/2012-12/2013	1.5 Hour(s)	0.75	Combinable	Interdisciplinary/Elective
C-7023-EN	Servicing the AHU Controller	Self-Paced	01/2012-12/2013	1.5 Hour(s)	0.75	Combinable	Interdisciplinary/Elective
C-7024-EN	Servicing the UNT Controller	Self-Paced	01/2012-12/2013	1.5 Hour(s)	0.75	Combinable	Interdisciplinary/Elective
C-7025-EN	Controls Basic for Scheduled Service Visits	Self-Paced	01/2012-12/2013	1 Hour(s)	0	0.0	Non-Academic
C-7026-EN	Servicing the VAV Controller	Self-Paced	01/2012-12/2013	1.5 Hour(s)	0.75	Combinable	Interdisciplinary/Elective
C-7034-EN	Commissioning FEC Systems	Classroom	01/2005-12/2013	16 Hour(s)	16	1.0	Interdisciplinary/Elective
C-7035A-EN	Programming FEC Systems with CCT Tree	Classroom	01/2008-12/2013	22 Hour(s)	22	1.0	Science/Technology
C-7036-EN	Programming Custom FEC Systems with CCT	Classroom	01/2006-12/2012	36 Hour(s)	36	2.0	Science/Technology

Course Number	Course Title	Delivery Method	Course Year	Course Length	Applicable Hours	Credits Recommended	University of Phoenix Equivalency
C-7068-01	Introduction to Systems Installation for ST's and EI's	Self-Paced	01/2012-12/2013	6 Hour(s)	0	0.0	Non-Academic
C-7068-02	Systems Installation & Commissioning Fundamentals	Classroom	01/2007-12/2013	36 Hour(s)	0	0.0	Non-Academic
C-7136-EN	Advance CCT Programming Using SST (Systems Selection Tool)	Classroom	01/2009-12/2013	40 Hour(s)	40	2.5	Science/Technology
C-7201-EN	Engineering Metasys Extended Architecture Projects	Classroom	01/2003-12/2013	36 Hour(s)	36	2.0	Interdisciplinary/Elective
C-7490-EN	Commission & Troubleshoot Metasys Extended Architecture	Classroom	01/2003-12/2013	36 Hour(s)	36	2.0	Interdisciplinary/Elective
C-7502-EN	Metasys Supervisory Network Workshop - Service	Classroom	01/2004-12/2013	63 Hour(s)	63	4.0	Science/Technology
C-8066-EN	Service Technician Development Program	Classroom	01/2005-12/2013	120 Hour(s)	0	0.0	Non-Academic
C-8089-EN	Service Tradesman Development Program	Classroom	01/2005-12/2013	36 Hour(s)	0	0.0	Non-Academic
C-Y7047-EN	OptiView Control Panels	Classroom	01/2006-12/2013	16 Hour(s)	16	1.0	Interdisciplinary/Elective
C-Y7048-EN	YCAV Latitude Chiller	Classroom	01/2006-12/2013	20 Hour(s)	20	1.0	Interdisciplinary/Elective
C-Y7049-EN	OptiSpeed VSD	Classroom	01/2004-12/2013	24 Hour(s)	24	1.5	Interdisciplinary/Elective
C-Y7050-EN	YK Centrifugal Chillers	Classroom	01/2006-12/2013	16 Hour(s)	16	1.0	Interdisciplinary/Elective
C-Y7063-EN	Eco2 YPAL Packaged RTU	Classroom	01/2007-12/2013	28 Hour(s)	28	1.5	Interdisciplinary/Elective
C-Y7066-EN	Absorption Chiller Training for Technicians	Classroom	01/2007-12/2013	2 Hour(s)	2	Combinable	Interdisciplinary/Elective
C-Y7070-EN	Absorption Chiller Basics Review	Classroom	01/2007-12/2013	24 Hour(s)	24	1.5	Interdisciplinary/Elective
C-7077-EN	HVAC Systems Troubleshooting	Classroom	01/2008-12/2013	36 Hour(s)	36	2.0	Interdisciplinary/Elective
C-7079-EN	Centrifugal Compressor Overhaul	Classroom	01/2008-12/2013	24 Hour(s)	24	1.5	Interdisciplinary/Elective
C-7095-EN	YVAA Screw Chiller	Classroom	01/2011-12/2013	24 Hour(s)	24	1.5	Interdisciplinary/Elective
C-7113-EN	Introduction to YMC2 Chillers	Classroom	01/2011-12/2013	20 Hour(s)	20	1.0	Interdisciplinary/Elective
C-ETN001-EN	VSD Commissioning Certification Training	Classroom	01/2008-12/2013	24 Hour(s)	24	1.5	Interdisciplinary/Elective
C-TOS001-EN	Toshiba Variable Speed Drive Training	Classroom	01/2008-12/2013	8 Hour(s)	8	0.5	Interdisciplinary/Elective
C-BEN0001-EN	Benshaw Medium Volt Solid State Starter Training	Classroom	01/2008-12/2013	32 Hour(s)	32	2.0	Interdisciplinary/Elective
C-FRK001-EN	Frick Compressor and Quantum Control Panel	Classroom	01/2008-12/2013	36 Hour(s)	36	2.0	Interdisciplinary/Elective
C-796-EN	Vibration, Alignment and Balancing	Classroom	01/1996-12/2013	4.5 Hour(s)	4.5	Combinable	Interdisciplinary/Elective
CBT12	HVAC Systems - Variable Air Volume	Self-Paced	01/2002-12/2013	8 Hour(s)	4	Combinable	Interdisciplinary/Elective

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LM-17	HVAC Introduction	Self-Paced	01/1994-12/2013	38 Hour(s)	19	1.0	Interdisciplinary/Elective
LM01	Metasys Database Generation: Using DDL	Self-Paced	01/1994-12/2013	3 Hour(s)	1.5	Combinable	Interdisciplinary/Elective
C-6850-EN	Building Automation & Control System Fundamentals	Self-Paced	01/2011-12/2013	0.5 Hour(s)	0	0.0	Too Few Hours
C-6851-EN	Metasys Supervisory Controllers Overview	Self-Paced	01/2007-12/2013	1 Hour(s)	0.5	Combinable	Interdisciplinary/Elective
C-6853-EN	Building Automation & Control System - Metasys Pre-Extended Architecture	Self-Paced	01/2011-12/2013	24 Hour(s)	12	0.5	Interdisciplinary/Elective
LM2	DX-9100 Fundamentals	Self-Paced	01/1998-12/2013	40 Hour(s)	20	1.0	Interdisciplinary/Elective
CBT7500	Building Automation System (BAS) Networking	Self-Paced	01/2003-12/2013	1 Hour(s)	0.5	Combinable	Science/Technology
C-6852-EN	Building Automation and Control System - Metasys Extended Architecture	Self-Paced	01/2011-12/2013	1 Hour(s)	0.5	Combinable	Interdisciplinary/Elective
C-Y7053-EN	Optiview Basics	Self-Paced	01/2005-12/2013	0.5 Hour(s)	0	0.0	Too Few Hours
C-Y7052-EN	Latitude Variable Speed Drive Basics	Self-Paced	01/2006-12/2013	1 Hour(s)	0.5	Combinable	Interdisciplinary/Elective
C-Y7055-EN	Variable Speed Drive Basics Training	Self-Paced	01/2006-12/2013	2 Hour(s)	1	Combinable	Interdisciplinary/Elective
C-Y7051-EN	Centrifugal Chillers Training	Self-Paced	01/2006-12/2013	2 Hour(s)	1	Combinable	Interdisciplinary/Elective
C-Y7070-EN	Absorption Chiller Basics Overview	Self-Paced	01/2007-12/2013	8 Hour(s)	4	Combinable	Interdisciplinary/Elective
C-7092-EN	Maintaining an Active Magnetic Bearing	Self-Paced	01/2010-12/2013	2 Hour(s)	1	Combinable	Interdisciplinary/Elective
C-7091-EN	OptiSpeed Variable Speed Drive (VSD) 845 HP Update	Self-Paced	01/2010-12/2013	2 Hour(s)	1	Combinable	Interdisciplinary/Elective
LM-35	Basic Refrigeration: How it Works	Self-Paced	01/2002-12/2013	2 Hour(s)	1	Combinable	Interdisciplinary/Elective
LM-36	Basic Refrigeration: How it Works	Self-Paced	01/1999-12/2013	2 Hour(s)	1	Combinable	Interdisciplinary/Elective
LM-37	Basic Refrigeration: Control Elements	Self-Paced	01/2002-12/2013	1 Hour(s)	0.5	Combinable	Interdisciplinary/Elective
C-7141-EN	Basics - Oil and Refrigerant Analysis Testing	Self-Paced	01/2012-12/2013	0.5 Hour(s)	0	0.0	Too Few Hours
C-7120-EN	Vibration Data Collection Orientation	Self-Paced	01/2011-12/2013	0.5 Hour(s)	0	0.0	Too Few Hours
C-7138-EN	Advanced - Oil and Refrigerant Analysis Report Interpretation	Self-Paced	01/2012-12/2013	0.5 Hour(s)	0	0.0	Too Few Hours
C-7080-EN	YK Compressor Overhaul	Self-Paced	01/2008-12/2013	5 Hour(s)	2.5	Combinable	Interdisciplinary/Elective
C-7081-EN	Single Package Water Cooled Product, Automated Logic Control	Self-Paced	01/2005-12/2013	1 Hour(s)	0	0.0	Non-Academic
C-R1025-45-EN	Chiller VSD Intro Pres Training	Self-Paced	01/2006-12/2013	2 Hour(s)	0	0.0	Non-Academic
C-Y7078-EN	YORK YT / YK Compressor Shaft Seal Training	Self-Paced	01/2008-12/2013	2 Hour(s)	1	Combinable	Interdisciplinary/Elective

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C-7139-EN	YVWA Water-Cooled Screw Liquid Chillers	Classroom	01/2011-12/2013	22 Hour(s)	22	1.0	Interdisciplinary/Elective
C-7087-EN	Airside Systems	Self-Paced	01/2004-12/2013	2.5 Hour(s)	1.25	Combinable	Interdisciplinary/Elective
C-7088-EN	Air-Side System: Air Balancing	Self-Paced	01/2005-12/2013	2.5 Hour(s)	1.25	Combinable	Interdisciplinary/Elective
LM21	Vibration Diagnostics	Self-Paced	01/2002-12/2013	2 Hour(s)	1	Combinable	Interdisciplinary/Elective
C-7076-EN	Psychrometric Basics	Self-Paced	01/2008-12/2013	5 Hour(s)	2.5	Combinable	Science/Technology
C-6851-EN	Metasys Supervisory Controllers Overview	Self-Paced	01/2007-12/2013	0.5 Hour(s)	0	0.0	Too Few Hours
C-8071-EN	Asbestos Awareness for Supervision & Project Managers	Self-Paced	01/2005-12/2013	3 Hour(s)	0	0.0	Non-Academic
C-7043-EN	Maintaining MS/TP Field Bus Networks	Self-Paced	01/2006-12/2013	9 Hour(s)	4.5	Combinable	Interdisciplinary/Elective
C-7085-EN	Using Metasys vTools	Self-Paced	01/2009-12/2013	1 Hour(s)	0.5	Combinable	Interdisciplinary/Elective

The University's Central Administration is located at 4035 S. Riverpoint Parkway Phoenix, AZ 85040. University of Phoenix is accredited by The Higher Learning Commission and is a member of the North Central Association. For additional information, contact The Higher Learning Commission, ncahlc.org.

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