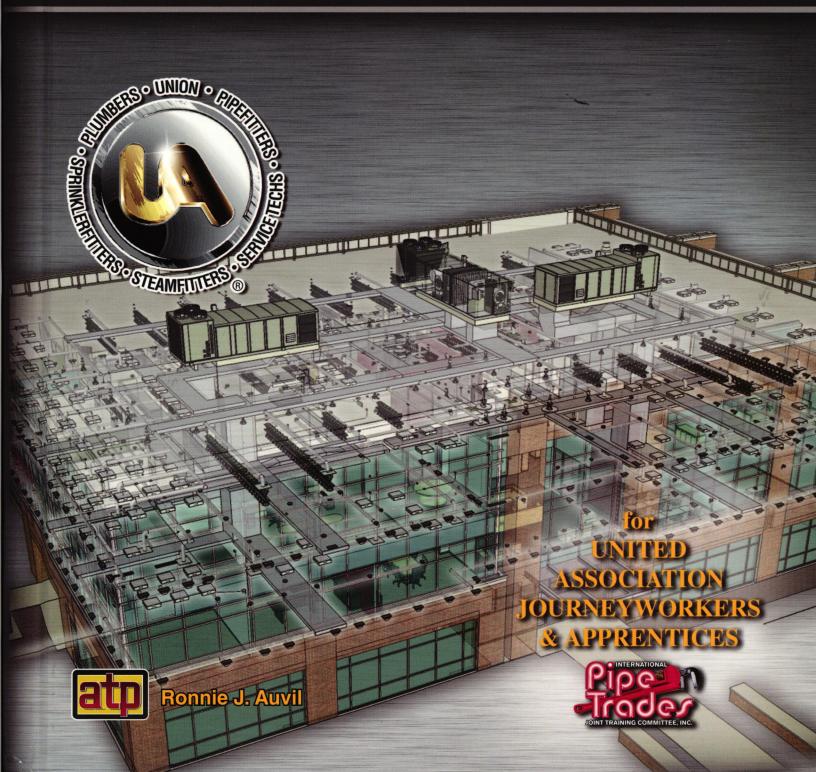
DOCKETED	
Docket Number:	13-ATTCP-01
Project Title:	Acceptance and Training Certification
TN #:	207291-5
Document Title:	International Pipe Trades Joint Training Committee, Inc Appendix D - HVAC and Refrigeration Systems Training Manual
Description:	This is a face sheet only. This book is with the California Energy Commission Efficiency staff.
Filer:	Rachel Shuman
Organization:	United Association Training Department
Submitter Role:	Applicant Representative
Submission Date:	1/13/2016 5:39:38 AM
Docketed Date:	1/13/2016

HVAC and Refrigeration Systems Training Manual

Digital Resources



HVAC and Refrigeration Systems Training Manual



International Pipe Trades Joint Training Committee, Inc.

Composed of representatives of the

United Association of Journeymen and Apprentices of the Plumbing and Pipe Fitting Industry of the United States and Canada (UA), the Mechanical Contractors Association of America, Inc. (MCAA), the Union-Affiliated Contractors (UAC) affiliated with the Plumbing-Heating-Cooling Contractors—National Association (PHCC-NA) and the National Fire Sprinkler Association Inc. (NFSA)

Under the Direction of the United Association Training Department

Microsoft, Windows, Windows Vista, PowerPoint, and Internet Explorer are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. Adobe, Acrobat, and Reader are registered trademarks of Adobe Systems Incorporated in the United States and/or other countries. Intel is a registered trademark of Intel Corporation in the United States and/or other countries. Apple, Macintosh, Mac, Mac OS, and Safari are registered trademarks of Apple, Inc. Firefox is a registered trademark of the Mozilla Foundation. PowerPC is a registered trademark of International Business Machines Corporation. AMGFlex, HPDFlex, and QAS are trademarks of Quietflex Manufacturing Company. L.P., ANSI, National Electric Code, NEC, and NFPA 70E are registered trademarks of National Fire Protection Association. Aquastat is a registered trademark of Honeywell Heating Specialties Company, BACnet is a trademark of the American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Inc. Basofil is a registered trademark of Basofil LLC. Beckett is a trademark of R.W. Beckett Corporation. Canadian Electrical Code and CEC are trademarks of Canadian Standards Association. Comfort, Serpentuff, and Thermidistat are trademarks of Carrier Corporation. CSI MasterFormat is a trademark of The Construction Specifications Institute, Inc. Ductulator is a trademark of Trane Company. ECM is a trademark of General Electric Company. Energy Star is a registered trademark of the U.S. Environmental Protection Agency. International Building Code, IBC, International Code Council, and ICC are registered trademarks of International Code Council. Keylar, Nomex, Suva Teflon, and Vitron are registered trademarks of E.I. DuPont de Nemours and Company. Leadership in Energy and Environmental Design, LEED, U.S. Green Building Council, and USGBC are registered trademarks of the U.S. Green Building Council. LonWorks is a trademark of Echelon Corporation. Magnehelic is a registered trademark of Dwyer Instruments, Inc. Nichrome is a registered trademark of Driver-Harris Wire Company. Silver Shield Underwriters Laboratories and UL are registered trademarks of Underwriters Laboratories Inc. Super Radiator Coils is a registered trademark of Super Radiator Coils LP Rob Holt, Jon Holt, and James Bast. Velcro is a registered trademark of Velcro Industries. Vise-Grip is a trademark of Irwin Industrial Tool Company. Quick Quiz and Quick Quizzes are either registered trademarks or trademarks of American Technical Publishers, Inc.

Davi

Josep

Jame

Tony

Russ

Corr

Davi

Jose

Jame

Tony

© 2014 by American Technical Publishers, Inc. All rights reserved

1 2 3 4 5 6 7 8 9 - 14 - 9 8 7 6 5 4 3 2

Printed in the United States of America

ISBN 978-0-8269-0784-4

Printed in the United States of America on environmentally friendly, Recycled Paper 😵 with Soy Inks



This training manual has been prepared for use by United Association journeyworkers and apprentices. It was compiled from information sources which the International Pipe Trades Joint Training Committee, Inc. believes to be competent. However, recognizing that each type of piping system and mechanical equipment installation must be designed to meet particular needs and code requirements, the Committee nor American Technical Publishers, Inc. assumes no responsibility or liability of any kind in connection with this training manual or associated materials, or its use by any person or organization, and makes no representations or warranties of any kind hereby.

This manual may contain instructions for the safe use of various types of tools and equipment that are used in the installation, testing, repair, maintenance, and servicing of equipment related to the subject matter. Those instructions, along with the tables, charts, drawings, or photographs which appear in this training manual, are not intended to set standards for their use and application and manufacturers' type. They are designed to familiarize journeyworkers and apprentices with some of the factors and considerations involved.