C&J ASSOCIATES

HVAC DESIGN ONLINE TRAINING

REQUEST INFORMATION

Where are you located:

Occupation:

Company Name

First Name | Last Name

Email | Phone

ONLINE TRAINING - CLASSES START SOON!
FOR RESERVATIONS CALL (253) 232-2089 OR (702) 289-2279
(REQUEST BROCHURE FOR HVAC DESIGN COURSE)



ABOUT THE INSTRUCTOR

Mr. Jose V. Chan, Jr., P.E., Fellow and Life Member ASHRAE, recognized HVAC Instructor with the U.S. Army in Korea and U.S. Marine Corps in California. Mr. Chan currently serves as President of C & J Associates and has previously received numerous awards with the Department of Defense for his expertise in the field of HVAC Design. Mr. Chan is a registered Professional Engineer in various U.S. States and HVAC Contractor in the State of California.



LEARNING OBJECTIVES

1) Learn to size air ducts and piping systems.
2) Understand the design applications of Packaged Unit and Split Systems.
3) Design or retrofit existing HVAC systems for energy savings.
4) Understand the advantages and disadvantages of two pipe versus four pipe systems.
5) Understand the use of fan laws 1 and 3 for atmospheric level and high altitudes.
6) Understand building heating and cooling loads estimates.
7) Understand to plot low pressure Pyschrometric Chart.



COURSE OVERVIEW

This course covers the overview of air conditioning primarily focusing on air systems, air-water systems, and water systems. This include principles of constant volume, variable air volume, multi-zone applications, system zone, reheat coil, heat pumps, split system, packaged systems, E.E.R and S.E.E.R rating, fan coil systems, double duct, single duct, economizer system, minimum outside air, free cooling, water cooled and air cooled units, refrigeration theory and its relation to HVAC systems.

C & J Associates has employed instructors with over 24 years field experienced in HVAC design, contracting for design build and design-bid-build projects.



CUSTOMIZED TOPICS FOR HVAC DESIGN JOB TRAINING:

A) Vapor compression refrigeration cycles.
B) Low pressure pychrometric chart.
C) HVAC overview for roof top packaged, split systems and chillers (screw, reciprocating and centrifugal compressors).
D) Building construction assemblies (insulation and u-values).
E) Block load calculation (manual and computerized).
F) Air distribution systems (VAV and constant volume, reheat coils, duct and pipe sizing).
G) Testing, adjusting and air balancing.