



## **CERTIFIED HVAC Level 1 TRAINING PROGRAM**

### **International Certification USA**

#### **Who can do?**

- A people who would like to become a professional of HVAC and Refrigeration systems.
- The people who are engaged in this profession and want to improve their knowledge in design of HVAC systems.
- The professionals, who have sound experience and exposure and want to have an accredited certificate.

**100,000+ Students  
have been Trained**

**since  
1997**

**Program is  
offered by**

**3D EDUCATORS  
INTL**  
22 Years of  
Excellence in  
Training &  
Development

**Invest in  
People the  
only Asset  
that Appreciates**



100,000+ Students  
have been Trained

since  
1997



**FINAL CERTIFICATION  
AWARDED BY IMRTC USA**

## **Table of Content**

Detail

Inauguration

Structure

Topics & Time Allocation

About the Program Designer & Instructor

Syllabus



100,000+ Students  
have been Trained

since  
1997



**FINAL CERTIFICATION  
AWARDED BY IMRTC USA**

## Program Details

### Inauguration

The Training Program will be inaugurated by a senior member of 3D EDUCATORS

### Program Structure

No of classes per week	<b>1 Class</b>
Duration of each class	<b>2 – Hour</b>
Guided Hours	<b>0</b>
Non Guided Hours	<b>0</b>
Total Hours	<b>16 hours</b>

### Other Learning Activities

Classroom Assignment	<b>1</b>
Presentations by Trainees	<b>1</b>
Project	<b>1</b>

### About the Program Instructor

Naveed Anjum  
B.E (NED), M. ASHRAE, M.HVACR

Naveed Anjum is a seasoned professional having more than 10 year experience in delivery of design, operation and construction management of HVAC and related systems. He has completed more than 50 high profile projects in Pakistan and Middle East with special emphasis on core design functions. He has been associated with HVACR industry with a key position leading a team of engineers to deliver quality projects and solutions to industrial and commercial engineering sector. He is an expert in HVAC analysis and design software applications converging to real time project models.

### In Affiliation with





100,000+ Students  
have been Trained

since  
1997



**FINAL CERTIFICATION  
AWARDED BY IMRTC USA**

## **COURSE CONTENT:**

**Curriculum for HVAC Design and Application  
Course Modules**

### **Level 1: HVAC Design Using HAP**

- Fundamentals
- Load Calculation Requirements
- Internal & External Load Factors
- Building Envelope
- Typical U-Factors
- Acceptable Ventilation Rates (ASHRAE 62.1)
- Understanding HAP Software interface
- Software Inputs
- Humidity & Temperature Control
- System Sizing & Reports
- Analyzing Outputs
- System Selection
- Basic Design of Hydronic System
- Basic Design of Air System
- Concepts in Energy Management
- HVAC Equipment Schedules
- ASHRAE Guidelines





100,000+ Students  
have been Trained

since  
1997



**FINAL CERTIFICATION  
AWARDED BY IMRTC USA**

## **Terms & Conditions**

### **WITHDRAWAL FROM THE DIPLOMA/CERTIFICATION**

Students are not allowed to withdraw from the Diploma. If a student cannot continue the Diploma his/her fee will be forfeited.

### **CONDUCT AND DISCIPLINE**

A disciplinary action, leading to rustication, will be taken against students whose conduct is found objectionable at any time during the course of study. Reference will be made to 3D Educators code of conduct.

### **EVALUATION AND GRADING**

The performance of students is evaluated through continuous observation of a student's performance in the Diploma – class participation, submission of assignments, quizzes and exercises.



100,000+ Students  
have been Trained

since  
1997



## FINAL CERTIFICATION AWARDED BY IMRTC USA

The student will be examined through three hourly exams conducted at the midterm and a final exam at the end of the program. Total marks for passing the Diploma will be 60 out of a total of 100.

Students who do not meet the attendance or any other eligibility criteria will not be allowed to appear in the final examination.

The following grading plan will be applicable for the Diploma:

<b>A</b>	<b>87 - 100</b>
<b>B+</b>	<b>81 -86</b>
<b>B</b>	<b>72 - 80</b>
<b>C+</b>	<b>66 - 71</b>
<b>C</b>	<b>60 - 65</b>
<b>F</b>	<b>below 60</b>



100,000+ Students  
have been Trained

since  
1997



**FINAL CERTIFICATION  
AWARDED BY IMRTC USA**

Students who are unable to appear for the final exam are required to submit a written application stating the reason for not appearing for the exam. 3D Educators reserves the right to approve or deny such applications. If approved, the student will be allowed to sit for the exam within one month. Failure to do so, the student will be resubmit the examination fee and sit the future schedule exam. Without passing of the exams no certification will be awarded.



100,000+ Students  
have been Trained

since  
1997



**FINAL CERTIFICATION  
AWARDED BY IMRTC USA**

### **ONLINE LIVE CLASSES FACILITY AVAILABLE**

- Instructor Led Training
- Real Time Presentations
- Interactive Classes
- Complete Notes and Other Stuff shall be provided through our Secure Student Login Member's Area
- For Online Live Classes, you may please download the Admission Form through our website <http://www.3deducators.com>. Fill it properly and attached the required document along with Picture and send back to [info@3deducators.com](mailto:info@3deducators.com) with scanned fee submitted voucher in the bank.
- For Pakistan you may submit the fee at any MCB Branch with the title of "3D EDUCATORS-TRAINERS & CONSULTANTS".
- If you are outside Pakistan then you may transfer via Bank to Bank or any western union, Fast Track, Money Gram or else International Transfer Body.
- After Admission, if you don't have GMAIL Account then you are requested to kindly make one GMAIL Account and shared it [info@3deducators.com](mailto:info@3deducators.com). Then further correspondence shall be made by our institute official.
- Extra Bandwidth Charges shall be incurred.

### **DISTANCE NOT MATTER**

You can join in the live classes Sessions of 3D EDUCATORS – TRAINERS & CONSULTANTS from anywhere of the world.





**FINAL CERTIFICATION  
AWARDED BY IMRTC USA**

100,000+ Students  
have been Trained

since  
1997



### **PRECAUTIONARY MEASURES**

- During Classes, you are requested to make sure that you are in isolated room, where no noise should be there except your voice.
- Kindly Switch Off your Cell Phone during the class, because it will disturb the quorum of class.
- If you have taken the admission in the course online lonely, then ethically it is recommended and suggested that you alone in the class.
- Recording of Lectures are not allowed at your end.

This world is emerging and growing in the 21st Century very rapidly because of latest and remarkable technologies and its advancement. Due to advancement of technology, we 3D EDUCATORS offer Live Interactive class sessions

3D EDUCATORS believe on Information Technology and its systems. Now you can also avail this facility at your home.

### **CONTACT US**

021-34141329, 0333-2402474  
021-34857148

info@3deducators.com  
<http://www.3deducators.com>

Get the Admission Form

**Download Form** | 

**MANAGEMENT  
3D EDUCATORS  
TRAINERS & CONSULTANTS**



100,000+ Students  
have been Trained

since  
1997



**FINAL CERTIFICATION  
AWARDED BY IMRTC USA**

**Global Recognized Certification from IMRTC USA**

**CERTIFICATE  
OF EXCELLENCE**

IMRTC USA Recognized  
**CERTIFICATION**



*This is to Certify That*  
**Mr. Danny Jones Wales**  
*has successfully met the certification requirements as outlined in  
IMRTC content and the policies adopted thereunder, hereby grants the certification of*

**Certified HVAC**

Student ID: IM864532201

Date of Commencement: May 4, 2014

Date of Ending: July 4, 2014



*Cheryyel Rhodes*

Principal of Institute

Director Affiliations and Official Affairs

**INTERNATIONAL MANAGEMENT RESEARCH & TECHNOLOGY CONSORTIUM**  
IMRTC - UNITED STATES OF AMERICA - <http://www.imrtc.org>

Chapter ID: AS2933770  
Partnership ID: AS5588322\_Pakistan  
[Verification@imrtc.org](mailto:Verification@imrtc.org)