

# ASME VIII Division 1 "Pressure Vessel" Code Simplified



## INTRODUCTION

This course gives participants coming from Engineering, Manufacturing, Repair and Testing Companies a comprehensive overview about the ASME VIII Division 1 "Pressure Vessel" Code and prepares them to fully comply with Code Requirements. In understanding and interpreting this Manufacturing and Testing Code correctly makes the project execution more efficient and profitable.

## WHO SHOULD JOIN

This class is designed for

- Pressure equipment Manufacturer,
- Inspectors of Plant Construction & Inspection companies
- Engineers working in refineries, chemical, industrial & gas plants and oil fields.

## SPEAKER'S BACKGROUND

**Mr. Lutz Seibt** is presently the Director of IDC Plant Technology Sdn Bhd. He has 16 years hand-on experience as an Authorized Inspector and Auditor acc. to German Pressure Vessel (AD Merkblaetter), Boiler (TRD) and Storage Tanks Codes, Pressure Equipment Directive (PED), Transportable Pressure Equipment Directive (TPED) and European Construction Material Directive; 9 years out of it within TUV's International Business Unit in Asia Pacific.



He has given training sessions on Pressure Equipments and German Pressure Vessel Standards for instance in Malaysia, Singapore, Korea and China. The recent trainings he has conducted since year 2008 include:-

- ◆ European Pressure Equipment Directive
- ◆ API 510 "Pressure Vessel — Maintenance Inspection, Rating, Repair and Alternation" and Certification Preparation
- ◆ ASME IX Code "Welding Qualifications" Simplified
- ◆ ASME VIII Division 1 "Pressure Vessel Calculation & Design"
- ◆ ASME VIII Division 1 "Pressure Vessel" Code Simplified

## OBJECTIVES

The course provides participants with the knowledge necessary to:

- ◆ Understand and Interpret code requirements and effectively use the ASME VIII Division 1 Code.
- ◆ Effectively make cross-references to internal and external code requirements.
- ◆ Encourage the participants to take all necessary precaution in ordering, basic calculation, fabricating and inspecting pressure vessel in an efficient practice.

## TESTIMONIAL

*"What I like most about the Training is the SIMPLIFICATION."*

*"It is an excellent learning experience and has value added in the work environment. It is strongly recommended for the relevant working group to attend."*

*"Putting the color tabs on the codes make it simpler to look into. Presentation by Lutz is good and understandable."*

*"After explained by the Trainer, I am more familiar with the ASME code. I found that ASME is not as difficult as we thought. Makes our life simpler and easier."*

*"Before I attend this Training, my knowledge about ASME is very poor. Now, I am self-motivated to get to know more about ASME, quite interesting."*

*"The presentation material is neat and almost complete; especially the little note given to stick onto the ASME code, very helpful!"*

*"The lesson is quite interesting!"*



For more information, please contact

IDC TRAINING HOUSE SDN BHD TEL: 03-7956 5126 WWW.IDC-TRAINING.COM

HRD Approved "Class A" Training Provider (since Year 2002). Registered with Ministry of Finance.

# ASME VIII Division 1

## "Pressure Vessel"

### Code Simplified



#### DAY 1

- 1) **Welcome & Introduction**
- 2) **Introduction into the ASME System**
  - ◆ Purpose of the Code
  - ◆ Scope of the Code
- 3) **Certificates of Authorization**
  - ◆ Qualification requirements specified by the Code
  - ◆ Roles specified by the Code
- 4) **Structure of Section VIII, Division 1**
  - ◆ Organization of the Code
  - ◆ Key terms discussed in the Code
- 5) **Construction Requirements**
  - ◆ Types of Joints
  - ◆ Static Head consideration
  - ◆ ASME VIII Div. 1 - Basic Calculations & Charts
  - ◆ Weld Joint Categories
  - ◆ Amount of RT – Full or Spot
  - ◆ RT Factors
  - ◆ Workshop

#### DAY 3

- 9) **Non-Destructive Testing (NDT)**
  - ◆ Different kinds of NDT
  - ◆ Requirements of Radiographic Testing (RT)
  - ◆ Ultrasonic Testing (UT)
  - ◆ Requirements of Magnetic Particle (MT) & Dye Penetrant Testing (PT)
  - ◆ Qualification of NDT-Procedures and Personnel
  - ◆ Workshop
- 10) **Pressure Testing, Stamping and Documentations**
  - ◆ Pressure Test Cautions & Requirements
  - ◆ Hydrotest / Pneumatic Test
  - ◆ Vessel MDMT
  - ◆ Requirements of vessel / name plate stamping
  - ◆ Requirements of "Manufacturer Data Record"
  - ◆ Workshop
- 11) **Exam (3 hours)**

#### DAY 2

- 6) **Material Requirements**
  - ◆ Material Selection / Material specification
  - ◆ Material Identification
  - ◆ Material Testing
  - ◆ Workshop
- 7) **Fabrication Requirements**
  - ◆ Fabrication sequence
  - ◆ Material Identification and Traceability
  - ◆ Forming processes
  - ◆ Requirements towards to welding and welding inspection
  - ◆ Workshop
- 8) **Heat Treatment**
  - ◆ Different kinds of Heat Treatments
  - ◆ Requirements Towards to Heat Treatment
  - ◆ Temperature Control
  - ◆ Heat Treatment Procedures
  - ◆ Workshop

#### BRING TO CLASS

##### Students should bring to class:

- ◆ ASME VIII Div. 1 (2007) - Hardcopy
- ◆ A calculator
- ◆ Lots of questions and a "CAN-DO" attitude

#### DAILY SCHEDULE

**3 DAYS ~ 9:00a.m. – 5:00p.m. (Workshop)**  
**Day 1 Registration from 8:30a.m.**

#### CLASS SIZE

**Enrollment is limited to 20 students.**

# ABOUT IDC TRAINING HOUSE

# IN-HOUSE TRAININGS AVAILABLE

**IDC Training House** is a leading Training Provider for corporate & government sectors; to both local & international market. Our strength lies in providing Trainers who are highly experienced & knowledgeable in their respective fields; in order to produce well-trained and qualified professionals to meet the demands of the new economy.

We specialize in human capital development in areas of **Soft Skills, Motivation, Leadership, Management, IT, ISO, Team Building, & Technical.**

If your company wishes to have a cost effective in-house training that is customized for your company,

Call us at

**+60-3-7956 5126 / 5139**

Or

Email to **info@idc-training.com**

For more programs offered by IDC Training House, please visit <http://www.idc-training.com>

For public workshops, please visit <http://www.idc-training.com/course-calendar.html>

**Course: ASME VIII Div 1 "Pressure Vessel" Code Simplified**

**Date: 21 - 23 July 2010**

**Venue: IDC Training Room, Amcorp Trade Centre, PJ, Selangor, Malaysia**

**Time: 9am - 5pm**

Name of Applicant(s) Mr / Ms / Dr / Ir (Others)	Designation(s)	Contact No. (H/P)
1. _____		
2. _____		
3. _____		
4. _____		
5. _____		
Company Name :		
Correspondence Address :		
Tel :	Ext. :	Fax :
H/P :	E-mail :	
Contact Person :		Designation :

	Group Package Minimum 3 delegates	Early Bird Package (with payment)	Normal Package
<b>Course Fee (per person)</b>	<b>RM 3,300</b>	<b>RM 3,500</b>	<b>RM 3,700</b>
<b>Closing Date</b>	<b>7 July 2010</b>	<b>21 Jun 2010</b>	<b>7 July 2010</b>

Please download the location map from: [http://www.idc-training.com/map/idc\\_map.pdf](http://www.idc-training.com/map/idc_map.pdf)

**Register NOW  
& save more  
with Early Bird  
Package !!**



Certificate of Attendance upon completion of the course



Save more with In-House Training



Save more with group of 3 delegates

### Terms and Conditions Registration Policy

Fees include course materials, lunch & tea breaks. Payment can be made by cash, credit card or using crossed cheque/bank draft made payable to **IDC Training House Sdn Bhd**, fourteen (14) working days prior to the date of the program. Otherwise registration(s) is treated as unconfirmed.

### Disclaimer

**Changes of course date, Trainer/Facilitator or venue**

We reserve the right to make alternative arrangement to the above if the needs arise due to unforeseen circumstances. Every effort will be made to inform the participants of these changes.

### Additional Expenses

We shall not be responsible for any extra expenses incurred by any participant(s) while attending the course.

**REGISTER NOW! FAX TO US AT +60-3-7956 1536**