

IDC WELDING INSPECTOR

- FOUNDATION OF WELDING TECHNOLOGY -

(based on AWS Structural Welding Code, ASME Pressure Vessel Codes & API 577)



STAGE 1

7 Days Course

INTRODUCTION

This course gives the participants the core knowledge about welding as one of the metal joining methods and inspection during weld preparation, welding and after job completion.

It prepares the participants to deal with the rising demand in quality during project preparation, execution and post fabrication stage.

OBJECTIVES

The course provides participants with the knowledge in:

- ✓ Of welding techniques, welding positions, welding consumables, weld preparation and welding drawing requirements
- ✓ The basics of welding metallurgy
- ✓ The usage of welding inspection and measuring devices
- ✓ Visual inspection of welded constructions and correctly identify and evaluate welding imperfection as per acceptance level associated with pre-production, fabrication and post fabrication
- ✓ Usage of various specifications, codes and standards
- ✓ Evaluation of welder's certificates and welding procedure specifications acc. to ASME IX
- ✓ Evaluate the preparation of test pieces for destructive tests and verify their compliance with applicable specifications
- ✓ Various parent materials and welding consumable (acc. to ASME)
- ✓ Reviewing NDT reports on welding work; ensuring that NDT personnel are properly qualified and that certification is relevant and valid for the testing performed
- ✓ Interpreting drawings and specifications, having understanding of weld symbols

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.

IDC WELDING INSPECTOR (Stage 1)

TRAINER'S BACKGROUND



Lutz Seibt 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 include:-

- ◆ European Pressure Equipment Directive
- ◆ API 510 Certification Preparation
- ◆ ASME IX Code "Welding Qualifications" Simplified
- ◆ ASME VIII Division 1 "Pressure Vessel Calculation & Design"
- ◆ ASME VIII Division 1 "Pressure Vessel Code Simplified"

Special Skills

- ✓ Inspector for periodical inspection & certification of
 - Pressure vessels, Steam boilers, Piping Systems
 - Cranes, Hoisting equipment, Hoisting equipment of lifeboats
- ✓ Inspector for third party & welding inspection and QA/QC in manufacturing/ construction of
 - Pressure vessels, Steam boilers, Piping Systems



TESTIMONIALS

(On other Technical Courses conducted by Lutz Seibt)

API 510 Certification Preparation Course

It was an excellent program conducted by a very experienced tutor. The discussion topics were directly related to my work scope and responsibilities & helpful and recommended this course to any inspection personnel.

E. Kannan

Discipline Head, Inspection Execution, Sarawak Shell Bhd

As always the course has been conducted to an excellent standard and the learning very much tuned to actual work environments. Very much recommended to all levels of the engineering community.

Pg Hassanal ASBPHM Puteh

Utilities Plant Inspector, Brunei LNG Sdn Bhd

Dear Mark,

We conducted API 510 training course from 21 July to 29 July by inviting **Lutz Seibt** in Malaysia. The course was attended by 23 applicants and the results of the questionnaires were excellent. I really appreciate your recommendation for great lecturer and hope you to give us your useful consultation for a long time to come.

Eung-Ho, Kim

Manager, Education Planning Team, Korean Gas Safety Corporation, Korea

ASME IX "Welding Qualifications" Simplified ASME VIII Div 1 "Pressure Vessel" Code

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

P.Govalupillay

Managing Director, PT. Atmindo (Indonesia)

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

Adi Setiawan

Engineer, PT. Atmindo (Indonesia)

The course was conducted successfully and I believe it helps me in having a better understanding of ASME IX "Welding Qualification" and efficiency in reviewing my day to day job.

Ir Mohd Rosli Salim

Inspector Engineer, Petronas Penapisan (Melaka)

"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.**"

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IDC WELDING INSPECTOR (Stage 1)

DAY
1

CHAPTER A1 History of Welding

- History of welding
- History of Metal-Arc-Welding

CHAPTER A2 Welding Inspection & The Welding Inspector

- Specific duties and responsibilities

CHAPTER A3 Welding Terminology

- Types of joint
- Types of weld
- Types of joint preparation
- Weld zone terms
- Weld positions

CHAPTER A4 Joining & Cutting processes

- Non-permanent joining processes
- Permanent joining processes
 - Fusion welding processes
 - Pressure welding processes

CHAPTER A5 Principle of Arc Welding

CHAPTER A6 Basics of Arc Welding Processed

DAY
4

CHAPTER A12 Codes and Standards

- American Standards
- European Standards

CHAPTER A13 Welding Procedures & Welder Qualifications acc. to ASME IX

- How to interpret and check a Welding Procedure Specification (WPS)
- How to interpret and check a Welding Qualification Certificate?

DAY
5

CHAPTER A14 Welding and Inspection Safety Practice

CHAPTER A15 Introduction in Non Destructive Testing (NDT); NDT in the ASME code

- Radiographic Testing
- Dye Penetrant Testing
- Magnetic Particle Testing
- Ultrasonic Testing
- Other NDT methods

DAY
2

CHAPTER A6 Basics of Arc Welding Processes

- Manual Arc Welding (SMAW)
- Gas Metal Arc Welding (GMAW)
- Flux Core Arc Welding (FCAW)
- Gas Tungsten Arc Welding (GTAW)
- Submerged Arc Welding (GTAW)
- Other Arc Welding Processes

CHAPTER A7 Basic Welding Metallurgy and Thermal Consideration

DAY
6

CHAPTER A16 Destructive Testing

- Tensile testing
- Bend Testing
- Impact Testing
- Fracture Testing
- Hardness testing
- Marco Testing

CHAPTER A17 Basics of Pre-heating & Post Weld Heat Treatment (PWHT)

CHAPTER A18 Weld Joint Geometry and Welding & NDT Symbols acc. to AWS

- How to read a production drawing?

DAY
3

CHAPTER A8 Steel Weldability

- Steel
- Heat affect of hydrogen in steel (HAZ)
- The effect of hydrogen in steel
- Preheat, its application and control
- Interpass temperature

CHAPTER A9 Welding Consumables

- Acc. to ASME IX and AWS

CHAPTER A10 Main Welding Discontinuities

CHAPTER A11 Visual Inspection

DAY
7

CHAPTER A19 Fillet Weld Sizes acc. to ASME VIII

CHAPTER A20 Material Inspection

CHAPTER A21 Pressure & Leak Testing

CHAPTER A22 Basics of Quality Assurance during Welding Projects



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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,

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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: IDC Welding Inspector (Stage 1)

Date: 4 - 10 Oct 2010

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

Time: 8.30am - 5.30pm

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
Course Fee (per person)	RM 5,400	RM 5,600	RM 5,900
Closing Date	20 Sept 2010	3 Sept 2010	20 Sept 2010

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.

Please download the location map from: 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

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