



Schlagbiegeversuch / Impact test / Essai de résilience (C40-C49)

| Schmelzen-Nr Heat No N° Coulée (807) | Ort Location Lieu (C01) 1) 2) 3) | Richt Direct Orient (C02) 4) | Zustand Cond. Cond. (805) 5) | Probentform Type of specimen Type d'éprouvette (C40-C41) | Temperatur Temperature Température (C03) °C | Schlagarbeit Impact energy Energie de rupture (C42-C43) | | | | MW J ≥24 |
|---|--|--|--|---|---|--|------------|------------|------------|----------------|
| | | | | | | 1 | 2 | 3 | 6) | |
| 42 42 | 46567 46567 | K40 F40 | Q Q | V1 V1 | KV450/7,5 KV450/7,5 | +020 +020 | 123 134 | 138 120 | 121 127 | 127 127 |

4) Q: quer / transversal / transversal
 5) V1: normalisiert und angelassen / normalized and tempered / normalisé et revenu
 6) MW: Mittelwert / Average / Moyenne

930°C ✓
 710°C

alysierungstemperatur
 ezeit: lmin/mm
 hlung an ruhender Luft
 asstemperatur: min/mm, min. 30 Minuten

CERTIFIED TRUE COPY

... Service & Trading Pte L

MATERIAL CERTIFICATES / MILL CERTIFICATES (ISO10474 / EN10204)

FOR PRESSURE EQUIPMENT & STEEL STRUCTURE COMPONENTS
 COURSE DURATION: 2 DAYS

COURSE DESCRIPTION

Some purchasers require their purchased materials to come with specific kind of material certificates, or material manufacturer are required to issue some so called **"Mill certificates"** or **"Material Test Reports"**.

Have you ever wondered...

- Very often we can read in purchaser's specifications: "Material shall be tested and delivered in accordance to EN 10204 3.2". **But what does EN 10204 really require?**
- How to **create** a material certificate or how to **review** material certificates?
- Who is allowed to **sign and stamp** material certificates?
- How to **write** material purchasing specifications for pressure equipment components?

This course provides participants a comprehensive overview about **Material Certificates** and **Test Reports**.

Furthermore, this course enables participants to develop Material Purchasing Specifications, carry out a document review during material income inspection and issue material re-stamping reports.



PROGRAM OBJECTIVES

- ✓ Understand ISO 10474 / EN 10204 (the most common standard for material certificates).
- ✓ Interpret EN 10168
- ✓ Develop material purchasing specifications
- ✓ Develop or review material certificates
- ✓ Manage material traceability

COURSE OUTLINE

DAY 1

- Inspection Certificates and Test Reports; Material Test Reports.
- When to issue or require what kind of certificate?
- Who has to / can sign and stamp material certificates?
- What is the content of a Material Inspection Certificate?
 - * Manufacturing Processes
 - * Heat Treatment
 - * Chemical Analysis
 - * Mechanical Testing
 - * NDE
 - * Etc.
- Workshop: Developing a Material Inspection Certificate
- Requirements towards Pressure Equipment Materials (European & American).
- Material Purchasing Specification and its development.

DAY 2

- Material Income control
 - * Required documentations
 - * Review of Material Inspection Certificates
- Material re-stamping / traceability procedures. (European & American requirements)
- Re-stamping reports & cutting plans



WHO SHOULD ATTEND?

- QA / QC Managers or Inspectors of:
 - * Steel mills
 - * Pipe / tube manufactures
 - * Warehouses of steel products
 - * Pressure equipment manufacturer
 - * Steel construction companies
- Project engineers & inspectors of industrial plants (Oil & Gas, Oleo-Chemicals & Chemicals, Power plants, Food, paper mills etc.)
- Pressure equipment inspectors

COURSE DURATION

- 2 Days Training

DAILY SCHEDULE

- 8:30am - 5:30pm

ITEMS TO BRING

- Lots of Questions
- A "CAN-DO" Attitude
- **EN 10204 - Hardcopy (Recommended)**
- **EN 10168 - Hardcopy (Recommended)**



TRAINER'S PROFILE

LUTZ SEIBT

Lutz Seibt has more than 20 years hands-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 conducted numerous training sessions related to Pressure Equipments (based on American and European standards) in Malaysia, Singapore, Korea, China, Thailand and Vietnam.

TECHNICAL QUALIFICATIONS

- ✓ Certified International Welding Engineers (International Institute of Welding - IIW, Germany)
- ✓ Certified API 510 Pressure Vessel Inspector
- ✓ Certified API 570 Piping Inspector
- ✓ Certified API 577 Advanced Welding Inspection & Metallurgy Professional
- ✓ Certified Pedestal Crane Inspector acc. to API RP 2D (Cranetech Training & Inspection, Inc., USA)
- ✓ Certified Safety Engineer (Fachhochschule Frankfurt, Germany)
- ✓ Environmental Auditor (Technical Academy Esslingen, Germany)
- ✓ Bachelor Degree – Motor Vehicle Engineering

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

COURSES CONDUCTED

- API 510 Pressure Vessel Inspector
- API 570 Piping Inspector
- API 577 Advanced Welding Inspection & Metallurgy Professional cum IDC Welding Inspector
- ASME IX "Welding Qualification"
- ASME VIII Division 1 "Pressure Vessel"
- European Pressure Equipment Directive (PED) 97/23/EC Simplified
- IDC Piping Specialist - Part 1: ASME B31.3 Process Piping
- Leak or Pressure Testing of Pressure Equipment
- Material Certificates (EN10204 / EN10168 / ISO10474)
- Welding & NDT Symbols (AWS / ISO Code)



TRAINER'S PROFILE

LUTZ SEIBT

TESTIMONIALS

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

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".

Ir Mohd Rosli Salim
Inspector Engineer, Petronas Penapisan (Melaka)

