

Creating Excellence in Construction

# B31.1 Industrial Plant & Marine Pipeline Design & Specification

Professional Good & Best Practices  
Insuring Robust & Reliable Pipelines

2 Week Training Program

- ✓ Incorporating Design Good & Best Practices
- ✓ Risk Analysis
- ✓ Value Engineering
- ✓ Designed Safety & Automation

## A 2 Week Training Program

### Program Overview

This program is designed to provide the participant a comprehensive, simplified and practical understanding of ASME **B31.1 Industrial Plant & Marine Pipeline** Code with reference to Design & Up-gradation of Existing Pipelines.

This program will build practical capabilities in Pipeline Design, Design Review, Investigating & Implementing Improvements and Building Knowledgebase. Program covers Industry Practice ASME **B31.1 Industrial Plant & Marine Pipeline** and includes Design Good and Best Practices.

### Program Content

1. Understanding Design Aspects of B31.1 **Industrial Plant & Marine Pipeline** Code
2. Major Requirements of **B31.1 Industrial Plant & Marine Pipeline** Code
3. Compliance Checklists for **B31.1 Industrial Plant & Marine Pipeline** Code
4. Design of Related Equipment & Facilities
5. Pipeline Design Methodology
6. Pipeline Design Review & Validation

7. Pipeline Requirements Analysis
8. Pipeline Environmental Analysis & Planning
9. Route Selection
10. Regulatory Aspects
11. Environmental Aspects
12. Right of Way Issues
13. Pipeline Alignment
14. Pipeline Specifications
15. Hydraulic Analysis
16. Designing Valve, Pumping and/or Compressor Stations
17. Designing Corrosion Protection
18. Designing Leak Detection
19. Designing in Pigging & Inspections
20. QA System
21. QC System
22. Designing in Construction Aspects
23. Welding & NDT Requirements
24. As-Built Review
25. Program Recommendations

### Workshop 1

Outline Action Plan to Implement Program Communicated Good and Best Practices

### Workshop 2

Advanced Topics? More Details on Some Above Issues Important for Participants (Customized for each Participant Group)

Increasing Productivity through Using Standard Forms, Templates, Checklists to Perform the IP Processes

Performance Management System to Measure Level of Performance in the Above Processes? we will develop the KPIs for the Above Processes

Planning & Implementing a Departmental/Functional Knowledge Base? For IP Rights and Methods? Key to Achieving Quality Service

Performance/Repeatability and Superior Performance in Our Organization

Your Individualized Action Plan for Implementing Good Practices and Best Practices Discussed throughout the Program

Enhanced Program Recommendations

#### **Who Should Attend?**

This program is intended for Professionals involved in **Design, Review & Improvement of Pipelines & Piping Meeting B31.1. Those new to the field** take away a good multi-discipline understanding of the issues involved in their work. It helps them in becoming productive quickly and in building a knowledge framework that will help them identify, understand, classify and remember on the job learning and experiences.

**Implementation Teams:** This program can be used to train implementation teams... when a new project or initiative is being started in your organization; when a new strategic focus is being initiated; just prior to a consultant being hired to advise the organization

#### **Program Outcomes and Take-Away/s**

Euro Training is in the business of providing practical useful training programs. Programs that

1. Help the participant implement improvements in his organization.
2. Help the participant gain Multi-discipline understanding of the issues so that he can incorporate the needs and expectations of all his

stakeholders/ customers in his improvement proposals and actions.

3. Help build a knowledge framework in which job related experience can be caught and remembered as his experience.

#### **Benefits to Organization**

Sending participant/s to this program will benefit the organization in the following ways

1. Quickly makes the participants competent, effective and productive on his job. Useful especially for
  1. Training New employees
  2. Competency Building in Existing Employees Transferred to a New Assignment
  3. Training Prior to a New Project or Initiative Planned in the Organization
2. Create Competency in the employee to perform his job well. including in relation to
  1. Relevant Technical Knowledge, Skills and Competencies
  2. Organizations' Strategic Objectives
  3. Needs and Expectations of the Stakeholders/ Customers (internal & external)
  4. Good Management Practices
  5. Identifying opportunities to Exceed Stakeholder/ Customer Expectations
3. Create a pool of trained manpower that can cost-effectively disseminate the knowledge to a large number of employees inside the organization. This is made possible by Euro Training's unique, easy to understand and easy to use methodology, based on *checklist and quality assurance* approaches.
4. Euro Training instructors often act as mentors for the participants. It's the most effective way to ensure effective competency development and the subsequent application of those

competencies on the job, by your motivated staff. We do have consultants available across Americas, Europe, Asia and Africa (Please inquire about our post program mentoring plans).

**Participant Individual Career Benefits**

1. You gain a multi-discipline understanding of the issues. Meaning when you make proposals and decisions on your related job you will keep in mind the needs and expectations of ALL the stakeholders/customers (internal & external)
2. Understanding and acting with understanding of the Needs and Expectations of your stakeholders/customers is known to enhance Job Satisfaction and reduce Monday Morning Blues.
3. As one of your stakeholders/customers is Executive Management, the program ensures that you know the strategic imperatives that drive the organization's efforts in your relevant job area.

**This Program is Intended for...**

**Those new to the field** take away a good multi-discipline understanding of the issues involved in their work. It helps them in becoming productive quickly and in building a knowledge framework that will help them identify, understand, classify and remember on the job learning and experiences.

**More experienced participants** take away an individualized action plan as mentioned in the previous sections.

**Implementation Teams:** This program can be used to train implementation teams...

1. when a new project or initiative is being started in your organization
2. when a new strategic focus is being initiated
3. just prior to a consultant being hired to advise the organization

Each participant will take away a memorable and potentially life changing experience from the program.

No limitations are being placed on who can attend. If you are interested in the program outcomes and takeaways, or feel you can benefit from the organizational and personal benefits mentioned above, you are welcome to register for this program. Program instructors have the knowledge, experience and access to resources required to customize the program to the specific job related needs of each program group

**Registration Recommendations**

**Team Nominations:** This program aims to ensure the participants have their individualized improvement plan at the end of the program. So, foreseeing the effort involved, anticipating resistance and implementation requirements, it is recommended that the organization nominate **at least two participants together** (three will be more desirable) for this program.

It is anticipated that these 2 or more participants will work together as a team or provide mutual support in order to implement the action plan.

**Single nominations** will also be accepted for the program. Single nominations are typically used to -

1. Develop personnel skills in critical skills and methodologies covered in this program.
2. Train individuals for leadership roles in business units or departments. This program will help the participant coach and lead his team in these critical skills and methodologies. (The program typically does not cover coaching skills but provides the related technical understanding in an easy to communicate manner).

**For Latest Program Schedule Email:**

**plc4021@EuroTraining.com**

**www.eurotraining.com/bro/plc4021.php**

<b>REGISTRATION FORM</b>	
<b>Program:</b>	<b>B31.1 Industrial Plant &amp; Marine Pipeline Design &amp; Specification Training Program (PLC4021)</b>
Location Where Attending:	
Program Dates:	
Whether Participant will Consider Alternate date if one requested is not available:	
Participant Name Prefix: Mr/Ms/Mrs	
Participant Name:	
Participant Job Title:	
Participant Department & Section:	
Participant Employer/ Company:	
Participant's Present Job Responsibilities:	
Participant Email Address:	
Participant Mobile Number:	
Sponsored by:	
Sponsoring Company:	
Job Title of Sponsoring Authority:	
Name of Sponsoring Authority:	
Email of Sponsoring Authority:	
Fax of Sponsoring Authority:	
Telephone Nos. of Sponsoring Authority:	
Web Site of Sponsoring Company:	
Invoice Reference:	
Invoicing Address:	

<b>REGISTRATION INFORMATION</b>
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1. To register: Please send us an official letter confirming registration (on organizational letterhead or Authorized Email).
2. Program Fee is
  - o USD \$8,900 per participant and includes Course Materials, Certificate, Refreshments and Lunch. (Fee at London, Paris and Kuala Lumpur is \$9,790 per participant)
3. Accommodation & Taxes/VAT (if applicable) is not included in Program fee. Special rates will be available at venue hotel for the participants.
4. Special discount of 10% is offered for participants who pay their fees at least 45 days before start of the program.
5. Refund will not be considered where the participants cancel his registration less than 3 weeks before start of the program. Alternate nominations will be allowed anytime before program start.
6. All participants are required to fill in Participant Information form - on first day of the program. Each program Undergoes Customization to Better Meet Participant Present and Future Career Needs. Please be prepared to let the Instructor/s know about your organization's Special Needs, Interests or Initiatives.
7. It is always useful for participants to bring their existing problems or case studies, work-process flow charts or job related problems for discussion - consideration will be at sole discretion of the program director/s.
8. Provisional Registration: You can make a provisional registration by sending us an email – an official registration request can be made within 2 weeks. This will ensure we will reserve a seat. All provisional registrations automatically cancel 2 weeks before program start.
9. Please note: No Live Voice Requests for Registration or Provisional Registrations.