# COURSE OVERVIEW FE0200
# Pipeline Pigging – Technical & Operational Aspects

**Course Title**
Pipeline Pigging – Technical & Operational Aspects

**Course Date/Venue**
May 17-21, 2026/Crowne Meeting Room, Crowne Plaza Al Khobar, KSA

**Course Duration/Credits**
Five days/3.0 CEUs/30 PDHs


**Course Reference**
FE0200

**Course Description**

***This practical and highly-interactive course includes various practical sessions and exercises. Theory learnt will be applied using our state-of-the-art simulators.***

This course provides an in-depth understanding of the technical and operational aspects of pipeline pigging. It also provides a programmatic approach to pipeline assessment, maintenance and monitoring as it relates to pipeline pigging.

The course is both technical and practical. Its primary goal is to present the information in such a manner those participants from all walks of industry will easily be able to understand and apply the concepts and pigging techniques. It will also help the participants make the right decisions for the development of new pipeline pigging systems, the operation of existing systems and in the selection of cleaning pigs and In Line Inspection (ILI) tools. The course details the required follow up from ILI runs in terms of defect disposition and prioritization as well as repair options considering cost efficiencies and regulatory requirements.

Throughout the course, there are practical class exercises to apply the concepts learned to operational case histories in oil, gas and multiphase pipelines.

The experienced engineer will find an in-depth exploration of pig selection, pigging sequences, preparation for and running an In Line Inspection and above all ensuring safe pigging operations. The new engineer will find an excellent opportunity to learn in a structured and logical sequence of course material as well as from the knowledge and experience of other course participants.

The course includes calculation techniques for making quantitative decisions in the design and development of pipeline pigging programs and pipeline defect assessments. Please bring a calculator.

## Course Objectives

Upon the successful completion of this course, each participant will be able to:-

- Apply the technical and operational aspects of pipeline pigging process and identify its strategic role in pipeline inspection, integrity assessment and commissioning.
- Implement the process of pigging during construction and operation of pipelines, utilize the techniques of pigging for general maintenance and repair and identify the procedures of pigging during renovation, rehabilitation and decommissioning
- Recognize the functions of specialist pigs and determine the pig role in pipeline isolation
- Identify intelligent pigs and ILI tools, characterize the various types of pigging equipments including its functions and discuss the launch and receive procedures in pipeline pigging
- Design and operate a pipeline cleaning programme, apply several techniques on troubleshooting stuck pigs, determine the aspects of pigging velocity in liquid and gas lines and employ the methods of cleaning and inspecting unpiggable lines

## Exclusive Smart Training Kit - H-STK®


*Participants of this course will receive the exclusive "Haward Smart Training Kit" (**H-STK®**). The **H-STK®** consists of a comprehensive set of technical content which includes **electronic version** of the course materials, sample video clips of the instructor's actual lectures & practical sessions during the course conveniently saved in a **Tablet PC**.*

## Who Should Attend

This course provides a wide understanding and deeper appreciation of pipeline pigging in technical and operational aspects for those personnel who are involved in pipeline integrity, corrosion control, project management, ongoing pipeline operations and pipeline inspection, repair or rehabilitation. It is also of benefit to service providers or those seeking to enhance their knowledge of pipeline pigging.

**Course Certificate(s)**
Internationally recognized certificates will be issued to all participants of the course who completed a minimum of 80% of the total tuition hours.

**Certificate Accreditations**
Certificates are accredited by the following international accreditation organizations: -

- The International Accreditors for Continuing Education and Training (IACET - USA)

  Haward Technology is an Authorized Training Provider by the International Accreditors for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 600, Herndon, VA 20171, USA. In obtaining this authority, Haward Technology has demonstrated that it complies with the **ANSI/IACET 2018-1 Standard** which is widely recognized as the standard of good practice internationally. As a result of our Authorized Provider membership status, Haward Technology is authorized to offer IACET CEUs for its programs that qualify under the **ANSI/IACET 2018-1 Standard**.

  Haward Technology's courses meet the professional certification and continuing education requirements for participants seeking **Continuing Education Units** (CEUs) in accordance with the rules & regulations of the International Accreditors for Continuing Education & Training (IACET). IACET is an international authority that evaluates programs according to strict, research-based criteria and guidelines. The CEU is an internationally accepted uniform unit of measurement in qualified courses of continuing education.

  Haward Technology Middle East will award **3.0 CEUs** (Continuing Education Units) or **30 PDHs** (Professional Development Hours) for participants who completed the total tuition hours of this program. One CEU is equivalent to ten Professional Development Hours (PDHs) or ten contact hours of the participation in and completion of Haward Technology programs. A permanent record of a participant's involvement and awarding of CEU will be maintained by Haward Technology. Haward Technology will provide a copy of the participant's CEU and PDH Transcript of Records upon request.

- British Accreditation Council (BAC)

  Haward Technology is accredited by the **British Accreditation Council** for **Independent Further and Higher Education** as an **International Centre**. BAC is the British accrediting body responsible for setting standards within independent further and higher education sector in the UK and overseas. As a BAC-accredited international centre, Haward Technology meets all of the international higher education criteria and standards set by BAC.

**Accommodation**
Accommodation is not included in the course fees. However, any accommodation required can be arranged at the time of booking.

## Course Instructor(s)

This course will be conducted by the following instructor(s). However, we have the right to change the course instructor(s) prior to the course date and inform participants accordingly:

**Mr. Marian Copilet**, MSc, BSc, is a **Senior Pipelines**, **Piping & Subsea Umbilicals Engineer** with over **25 years** experience and extensive knowledge of **upstream and downstream sectors**, particularly in **pipelines**, **pipework**, **pressure vessels and storage tanks**, from design to construction, installation, commissioning, testing, pigging, hot tapping, isolation, repair by hot and cold work methods, **integrity assessment and life extension**, as well as topsides and subsea equipment, **umbilicals and associated hardware**.

Mr. Copilet has worked with major international clients including **Shell**, **BP**, **Chevron**, **ExxonMobil**, **Total**, **British Gas**, **Statoil**, **Saudi Aramco**, **ADMA**, **PD Oman**, **Qatar Petroleum**, **QGPC**, **RasGas**, **ENPPI**, **Petrojet**, **Sonatrach**, **Kala**, **National Iranian Gas**, **China Petroleum**, **Marathon Oil**, **Petronas**, **Woodside**, etc.

Mr. Copilet is currently the **Technical Solution Manager** at the **Oceaneering Umbilical Solutions** offices in Rosyth, Scotland. Prior to joining Oceaneering, Mr. Copilet worked for **STATS**, a specialist engineering company based in Aberdeen, Scotland, which provides a full service capability for **repair and shutdown services**, reducing system or plant downtime and **extending the operational life** for **onshore, topsides and subsea locations**, including **piping and pipeline isolation** and **hot tap intervention**. Before joining STATS, Mr. Copilet was one of the **Directors** of **Durham Pipeline Technology** (DPT), a British company developing **innovative technical solutions for pipeline access**, **inspection and cleaning** based on **patented bristle tractor technology**.

Prior to DPT, Mr. Copilet worked in a variety of technical and managerial positions for **GD Engineering**, the **world leader in the supply of pipeline pigging equipment and technology**, including **Bandlock 2**, the world's safest quick opening closures, **pig signallers**, **scraper launchers and receivers**, **automated pig and sphere launching and receiving systems**.

In addition, he also worked as a **University Lecturer**, **Proposals Engineer**, **QA/QC Engineer** and **Welding Engineer**.

Mr. Copilet has **Master** and **Bachelor** degrees with **Honors** in **Mechanical Engineering**.

## Course Fee

**US$ 5,500** per Delegate + **VAT**. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

## Training Methodology

All our Courses are including **Hands-on Practical Sessions** using equipment, State-of-the-Art Simulators, Drawings, Case Studies, Videos and Exercises. The courses include the following training methodologies as a percentage of the total tuition hours:-

30% Lectures
20% Practical Workshops & Work Presentations
30% Hands-on Practical Exercises & Case Studies
20% Simulators (Hardware & Software) & Videos

In an unlikely event, the course instructor may modify the above training methodology before or during the course for technical reasons.

## Course Program

The following program is planned for this course. However, the course instructor(s) may modify this program before or during the course for technical reasons with no prior notice to participants. Nevertheless, the course objectives will always be met:

***Day 1:*** ***Sunday, 17th of May 2026***

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| *0730 – 0800* | *Registration & Coffee* |
| *0800 – 0815* | *Welcome & Introduction* |
| *0815 – 0830* | ***PRE-TEST*** |
| *0830 – 0900* | ***Participant Survey***<br>*Course Overview & Objectives* |
| *0900 – 0930* | ***Introduction to Pipeline Pigging*** |
| *0930 – 0945* | *Break* |
| *0945 – 1030* | ***Conventional Pigs: Introduction*** |
| *1030 – 1115* | ***Conventional Pigs: Type of Pigs*** |
| *1115 – 1130* | *Break* |
| *1130 – 1245* | ***Conventional Pigs: Type of Pigs (cont'd)*** |
| *1245 – 1420* | ***Case Study*** |
| *1420 – 1430* | ***Recap*** |
| *1430* | *Lunch & End of Day One* |

***Day 2:*** ***Monday, 18th of May 2026***

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|---|---|
| *0730 – 0800* | ***Recap & Discussion***<br>*Overview of Day 2 & Course Objectives* |
| *0800 – 0900* | ***Conventional Pigs – Practical Applications*** |
| *0900 – 0915* | *Break* |
| *0915 – 1045* | ***Pigging During Construction*** |
| *1045 – 1145* | ***Pigging During Operation*** |
| *1145 – 1230* | ***Pigging for General Maintenance & Repair*** |
| *1230 – 1245* | *Break* |
| *1245 – 1330* | ***Pigging During Renovation, Rehabilitation & Decommissioning*** |
| *1330 – 1420* | ***Case Study*** |
| *1420 – 1430* | ***Recap*** |
| *1430* | *Lunch & End of Day Two* |

**Day 3: Tuesday, 19th of May 2026**

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|---|---|
| 0730 – 0800 | ***Recap & Discussion***<br>*Overview of Day 3 & Course Objectives* |
| 0800 – 0900 | ***Specialist Pigs*** |
| 0900 – 0915 | *Break* |
| 0915 – 1045 | ***Pigs for Pipeline Isolation*** |
| 1045 – 1230 | ***Intelligent Pigs – ILI Tools*** |
| 1230 – 1245 | *Break* |
| 1245 – 1420 | ***Intelligent Pigs – ILI Tools (cont'd)*** |
| 1420 – 1430 | ***Recap*** |
| 1430 | *Lunch & End of Day Three* |

**Day 4: Wednesday, 20th of May 2026**

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|---|---|
| 0730 – 0800 | ***Recap & Discussion***<br>*Overview of Day 4 & Course Objectives* |
| 0800 – 0900 | ***Pigging Equipment*** |
| 0900 – 0915 | *Break* |
| 0915 – 1045 | ***Pigging Equipment (cont'd)*** |
| 1045 – 1230 | ***Launch & Receive Procedures*** |
| 1230 – 1245 | *Break* |
| 1245 – 1420 | ***Case Study*** |
| 1420 – 1430 | ***Recap*** |
| 1430 | *Lunch & End of Day Four* |

**Day 5: Thursday, 21st of May 2026**

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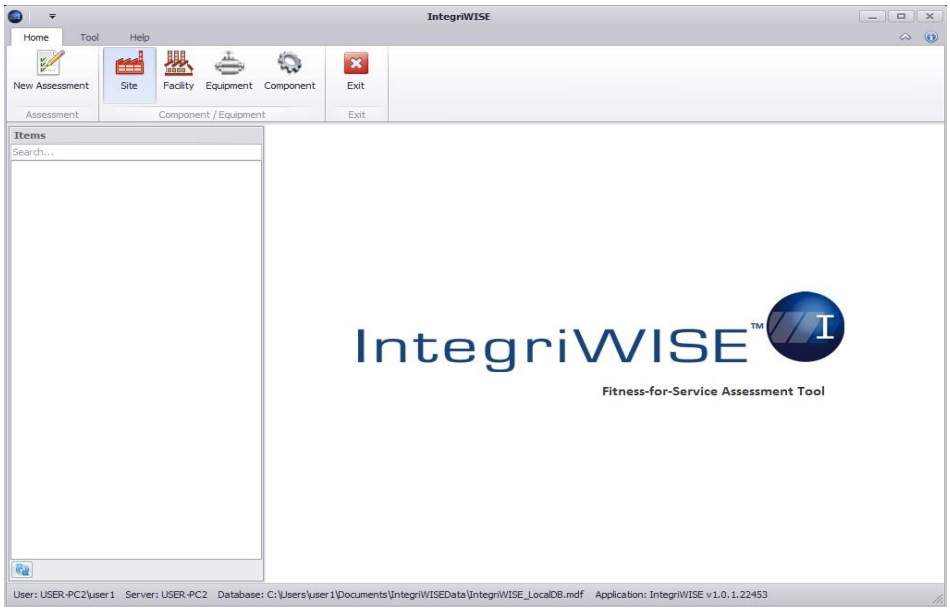
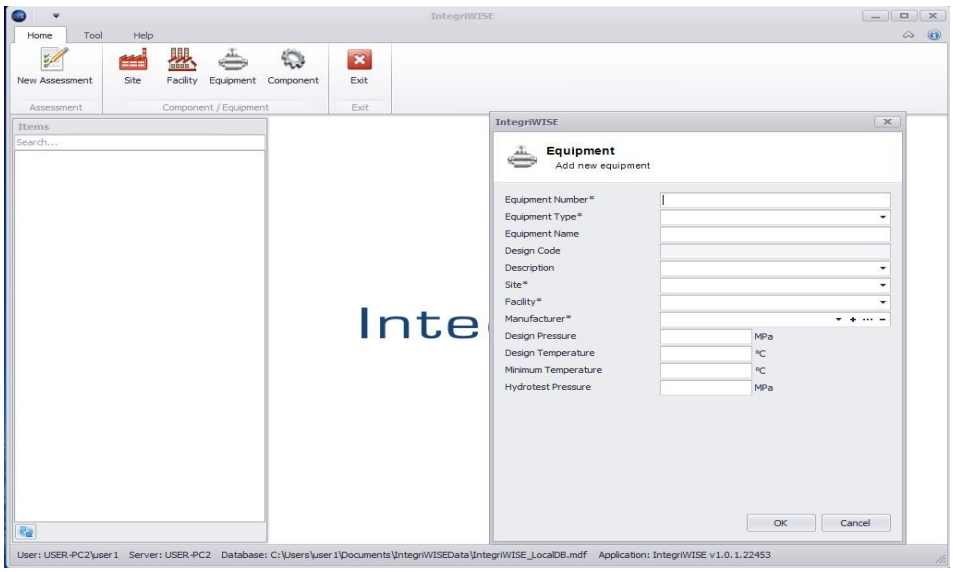
|---|---|
| 0730 – 0800 | ***Recap & Discussion***<br>*Overview of Day 5 & Course Objectives* |
| 0800 – 0900 | ***Designing & Running a Cleaning Programme*** |
| 0900 – 0915 | *Break* |
| 0915 – 1000 | ***Troubleshooting Stuck Pigs*** |
| 1000 – 1100 | ***Pigging Velocity in Liquid Lines*** |
| 1100 – 1200 | ***Pigging Velocity in Gas Lines*** |
| 1200 – 1215 | *Break* |
| 1215 – 1345 | ***Cleaning & Inspecting Unpiggable Lines*** |
| 1345 – 1400 | ***Course Conclusion*** |
| 1400 – 1415 | ***POST-TEST*** |
| 1415 – 1430 | *Presentation of Course Certificates* |
| 1430 | *Lunch & End of Course* |

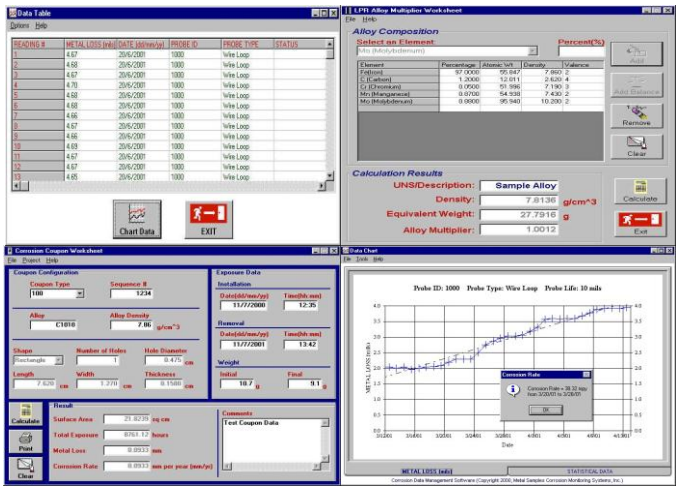
## Simulator (Hands-on Practical Sessions)

Practical sessions will be organized during the course for delegates to practice the theory learnt. Delegates will be provided with an opportunity to carryout various exercises using the simulators "IntegriWISE™", "Corrosion Data Management Software (CDMS)" and "Electronic Corrosion Engineer (ECE®) 5".

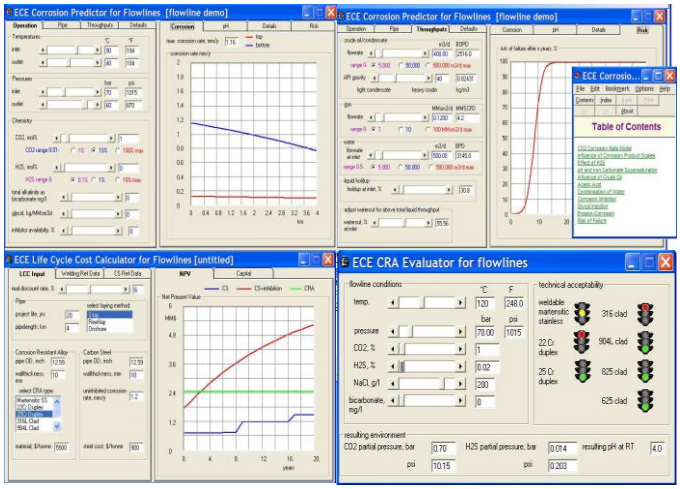



**IntegriWISE™**



**Corrosion Data Management Software (CDMS)**



**Electronic Corrosion Engineer (ECE®) 5**

**Course Coordinator**

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