Haward Technology Middle East

COURSE OVERVIEW PE0398
Aspen Operations Reconciliation & Accounting (AORA)

Course Title
Aspen Operations Reconciliation & Accounting (AORA)

Course Date/Venue
September 02-06, 2024/Fujairah Meeting Room, Grand Millennium Al Wahda Hotel, Abu Dhabi, UAE
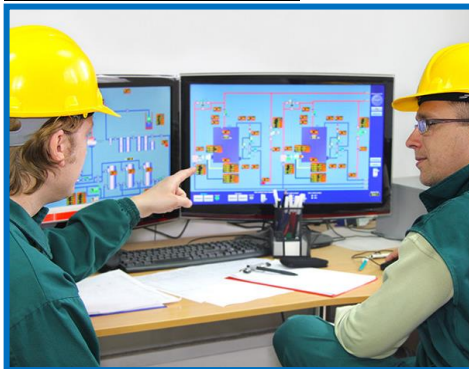
Course Reference
PE0398

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

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 is designed to provide participants with a detailed and up-to-date overview of Aspen Operations Reconciliation and Accounting (AORA). It covers the capabilities of Aspen operations reconciliation and accounting (AORA) and its role in process industries; the layout, menus and key features of AORA interface; the basic configuration, data import, integration and data reconciliation; configuring user roles, permissions and ensuring data security within AORA; and the detailed data reconciliation techniques, handling missing and erroneous data and the use of historical data in reconciliation.

Further, the course will also discuss the reconciliation results, optimizing operational performance and linking operational data to financial results; the cost allocation methods, generating financial reports, variance analysis and budgeting and forecasting; creating custom calculations within AORA for specialized operational or financial analysis; integrating AORA with other AspenTech products; and the advanced data visualization techniques.

During this interactive course, participants will learn the data import and report generation; diagnosing and resolving common issues encountered by AORA users; the best practices for planning and implementing AORA in an organization; managing organizational change and training staff on AORA use; and the performance of AORA, including system settings and user interaction.

Course Objectives

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

- Apply and gain an in-depth knowledge on Aspen operations reconciliation and accounting (AORA)

- Discuss the capabilities of Aspen operations reconciliation and accounting (AORA) and its role in process industries

- Navigate the layout, menus and key features of AORA interface and apply basic configuration, data import, integration and data reconciliation

- Configure user roles, permissions and ensure data security within AORA

- Carryout detailed data reconciliation techniques, handle missing and erroneous data and use historical data in reconciliation

- Analyze reconciliation results, optimize operational performance and link operational data to financial results

- Employ cost allocation methods, generating financial reports, variance analysis and budgeting and forecasting

- Create custom calculations within AORA for specialized operational or financial analysis

- Integrate AORA with other AspenTech products and apply advanced data visualization techniques

- Automate data import and report generation as well as diagnose and resolve common issues encountered by AORA users

- Apply best practices for planning and implementing AORA in an organization

- Manage organizational change and training staff on AORA use

- Optimize the performance of AORA including system settings and user interaction

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 an overview of all significant aspects and considerations of aspen operations reconciliation and accounting (AORA) for process engineers who need advanced skills for more complex modeling tasks R and D engineers and researchers using Aspen HYSYS for process synthesis, upgrade or modifications.

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.

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. Manuel Dalas, PEng, MSc, BSc, is a **Senior Process Engineer** with over **25 years** of industrial experience within the **Oil & Gas**, **Refinery**, **Petrochemical** and **Refinery** industries. His expertise widely includes in the areas of **Pressure Relief Valves, Pressure Vessels** Maintenance & Operation, **Piping Support**, **Ironworks**, **Rotating & Static Equipment** (**Pumps**, **Valves**, **Boilers**, **Pressure Vessels**, **Tanks**, **Heat Exchangers**, **Bearings**, **Compressors**, **Pipelines**, **Motors**, **Turbines**, **Gears**, **Seals**), **Crude Distillation Process**, **Saturation Gas Process** Technology, **Crude Dehydration & Desalting**, **Crude** Stabilization Operations, **Process Plant** Performance & Efficiency, **Heat Exchangers & Fired Heaters** Operation & Troubleshooting, **Process Plant** Optimization, **Revamping & Debottlenecking**, **Process Plant** Troubleshooting & Engineering Problem Solving, **Mass & Material Balance**, **Oil & Gas** Processing, **Oil Field** Operation, **Process Plant** Operation & Troubleshooting, **Hydrogen Sulphide Stripping**, **Crude Oil De Salting** Process, **Gas Conditioning**, **NGL Recovery & NGL Fractionation**, **Flare** Systems, Pre-Fabrication of **Steel Structure**, Alloy Piping Pre-Fabrication, **Heat Exchangers**, **Vertical Columns/Pressure Vessels**, **Distillation Column**, **Steel Structures**, **Construction** Management, **Building** Structures and **Electrical-Mechanical Equipments**. Further, he is also a well-versed in **Materials** Management, **Inventory Control** and Workplace Housekeeping. Currently, he is the **Technical Consultant** of the **Association of Local Authorities** of **Greater Thessaloniki** where he is in-charge of the mechanical engineering services for piping, pressure vessels fabrications and ironwork.

During his career life, Mr. Dalas has gained his practical and field experience through his various significant positions and dedication as the **Technical Manager**, **Construction Manager**, **Project Engineer**, **Production Engineer**, **Construction Engineer**, **Consultant Engineer**, **Technical Consultant**, **Safety Engineer**, **Mechanical Engineer**, **External Collaborator**, **Deputy Officer** for various companies including the Alpha Astika, Anamorfosis Technical Firm, EKME, ASTE, Elof Consulting and Hypergroup.

Mr. Dalas is a **Registered Professional Engineer** and has a **Master** degree in **Energy System** from the **International Hellenic University** and a **Bachelor** degree in **Mechanical Engineering** from the **Mechanical Engineering Technical University**, **Greece** along with a **Diploma** in **Management & Production Engineering** from the **Technical University** of **Crete**. Further, he is a **Certified Internal Verifier/Assessor/Trainer** by the **Institute of Leadership and Management** (**ILM**), a **Certified Project Manager Professional** (**PMI-PMP**), a **Certified Instructor/Trainer**, a **Certified Energy Auditor** for **Buildings**, **Heating & Climate Systems**, a **Member** of the **Hellenic Valuation Institute** and the **Association of Greek Valuers** and a **Licensed Expert Valuer Consultant** of the **Ministry of Development and Competitiveness**. He has further delivered numerous trainings, courses, seminars, conferences and workshops internationally.

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 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.

Accommodation

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

Course Program

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

Day 1:   **Sunday, 02nd of September 2024**

0730 – 0800	*Registration & Coffee*
0800 – 0815	*Welcome & Introduction*
0815 – 0830	***PRE-TEST***
0830 – 0930	***Overview of AORA:*** *Introduction to the Software, its Capabilities & its Role in Process Industries*
0930 – 0945	*Break*
0945 – 1030	***Navigating the AORA Interface:*** *Familiarization with the User Interface, including Layout, Menus & Key Features*
1030 – 1130	***Basic Configuration Steps:*** *Setting up a New Project, Defining Plant Structure (Units, Streams, etc.) & Basic System Settings*
1130 – 1215	***Data Import & Integration:*** *How to Import Operational & Financial Data from Various Sources into AORA*
1215 – 1230	*Break*
1230 – 1330	***Introduction to Data Reconciliation:*** *The Principles of Data Reconciliation & its Importance in Operational Accounting*
1330 – 1420	***Role-based Access & Security Settings:*** *Configuring User Roles, Permissions & Ensuring Data Security within AORA*
1420 – 1430	***Recap***
1430	*Lunch & End of Day One*

Day 2:   **Monday, 03ʳᵈ of September 2024**

0730 – 0830	**Detailed Data Reconciliation Techniques:** *The Methods & Algorithms for Reconciling Data Discrepancies*
0830 – 0930	**Handling Missing & Erroneous Data:** *Strategies for Dealing with Incomplete or Incorrect Data Inputs*
0930 – 0945	*Break*
0945 – 1100	**Use of Historical Data in Reconciliation:** *How to Leverage Historical Operational Data for More Accurate Reconciliation*
1100 – 1215	**Analyzing Reconciliation Results:** *Interpreting Output Reports, Identifying Trends & Troubleshooting Common Issues*
1215 – 1230	*Break*
1230 – 1330	**Optimizing Operational Performance:** *Using Reconciliation Results to Identify Areas for Process Improvement*
1330 – 1420	**Case Study: Simple Reconciliation Scenario:** *Hands-on Practice with a Straightforward Operational Data Reconciliation Exercise*
1420 – 1430	**Recap**
1430	*Lunch & End of Day Two*

Day 3:   **Tuesday, 04ᵗʰ of September 2024**

0730 – 0830	**Linking Operational Data to Financial Results:** *Techniques for Translating Operational Improvements into Financial Performance*
0830 – 0930	**Cost Allocation Methods:** *Understanding Different Approaches to Allocating Costs Based on Operational Data*
0930 – 0945	*Break*
0945 – 1100	**Generating Financial Reports:** *Customizing & Generating Reports that Detail Operational Costs, Revenues & Profitability*
1100 – 1215	**Variance Analysis:** *Identifying & Analyzing Variances Between Actual & Expected Financial Performance*
1215 – 1230	*Break*
1230 – 1330	**Budgeting & Forecasting:** *Using AORA Data for More Accurate Budgeting & Financial Forecasting*
1330 – 1420	**Case Study: Financial Reconciliation Scenario:** *Practical Exercise Focused on Reconciling Operational Data with Financial Records*
1420 – 1430	**Recap**
1430	*Lunch & End of Day Three*

Day 4:   **Wednesday, 05ᵗʰ of September 2024**

| 0730 – 0830	**Custom Calculations & Extensions:** *Creating Custom Calculations Within AORA for Specialized Operational or Financial Analysis*
0830 – 0930	**Integrating AORA with Other AspenTech Products:** *How AORA Can be Integrated with Other AspenTech Software for a More Comprehensive Solution*
0930 – 0945	*Break*
0945 – 1100	**Advanced Data Visualization Techniques:** *Leveraging the Visualization Tools in AORA for Enhanced Data Analysis & Presentation*
1100 – 1215	**Automating Data Import & Report Generation:** *Setting up Automated Workflows for Data Importation & Report Creation*
1215 – 1230	*Break*
1230 – 1420	**Troubleshooting & Support:** *Tips for Diagnosing & Resolving Common Issues Encountered by AORA Users*
1420 – 1430	**Recap**
1430	*Lunch & End of Day Four*

Day 5:   **Thursday, 06ᵗʰ of September 2024**

0730 – 0930	**Project Planning & Implementation Strategy:** *Best Practices for Planning & Implementing AORA in an Organization*
0930 – 0945	*Break*
0945 – 1100	**Change Management & Training:** *Strategies for Managing Organizational Change & Training Staff on AORA Use*
1100 – 1230	**Performance Optimization:** *Tips for Optimizing the Performance of AORA, including System Settings & User Interaction*
1230 – 1245	*Break*
1245 – 1345	**Review of Key Course Concepts:** *A Comprehensive Review of the Most Important Topics Covered During the Course*
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 our state-of-the-art "ASPEN HYSYS" simulator.
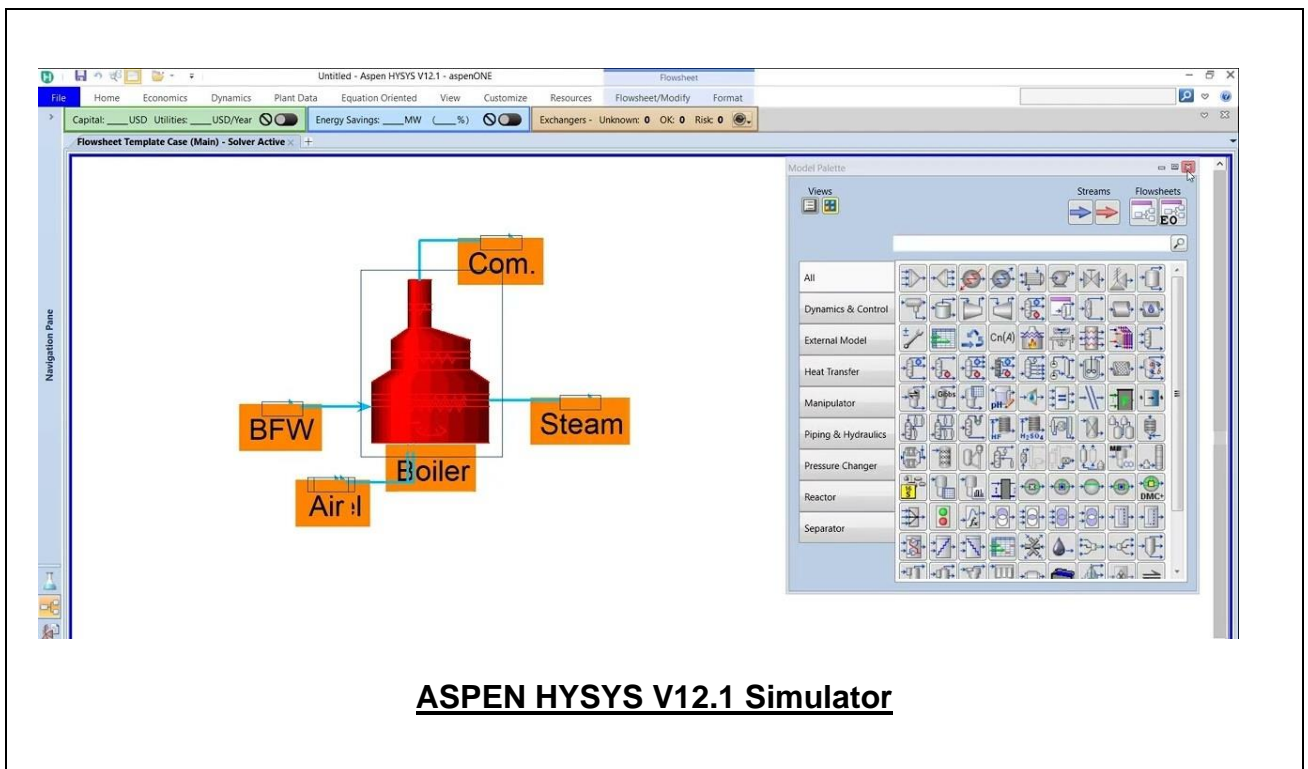
ASPEN HYSYS V12.1 Simulator

Course Coordinator

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