COURSE OVERVIEW TM0931
Basic Data for Manufacturing and Production Management

Course Title
Basic Data for Manufacturing and Production Management

Course Date/Venue
February 23-27, 2025/Elite Byblos Hotel Al Barsha, Sheikh Zayed Road, Dubai, UAE

Course Reference
TM0931

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

Course Description

This practical and highly-interactive course includes real-life case studies and exercises where participants will be engaged in a series of interactive small groups and class workshops.

Basic Data for Manufacturing and Production Management in the Oil and Gas Industry focuses on the critical data needed to efficiently manage and optimize production operations. This includes key aspects such as asset management, production scheduling, materials inventory, and quality control, as well as adherence to health, safety, and environmental standards. By understanding and utilizing these foundational data elements, professionals in the oil and gas industry can streamline production workflows, improve resource allocation, minimize downtime, and ensure compliance with industry regulations, ultimately driving operational efficiency and profitability.

This course covers the Generic Statistical Business Process Model (GSBPM). It describes and defines the set of business processes needed to produce official statistics. The course will also provide a standard framework and harmonized terminology to help statistical organizations to modernize their statistical production processes, as well as to share methods and components.

Course Objectives

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

- Apply and gain basic knowledge on the principles of building data production systems
- Analyze Generic Statistical Business Process model (GSBPM) and describe the set of business processes needed to produce official statistics
- Implement standard framework and harmonized terminology
- Specify the needs for information, consult and confirm needs, establish output objective, identify concepts, check data availability and prepare business case
- Design outputs, variable descriptions, data collection methodology, frame and sample methodology, statistical processing methodology and production systems and workflow
- Build data collection instrument and enhance process components, configure workflows, test production systems, test statistical business process and finalize production systems
- Select sample and set up, run and finalize collection
- Employ process data by integrating, classifying, coding, reviewing, validating, editing and imputing data deriving new variables and statistical units, calculating weights and aggregates and finalizing data files
- Analyze the data by preparing draft outputs, validating outputs, scrutinizing and explaining, applying disclosure control and finalizing outputs
- Disseminate the data by updating output system, producing dissemination products, managing release and promoting dissemination products and managing user support
- Define archive rules and manage archive repository as well as preserve and dispose data and associated metadata
- Evaluate and gather inputs, conduct evaluation and agree for an action plan

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 conveniently saved in a **Tablet PC**.*

Who Should Attend

This course provides an overview of all significant aspects and considerations of the principles of building data production system for those who are involved in developing and organizing a statistical system for Abu Dhabi to contribute to the UAE's national statistical system. The course is also beneficial for those involved in providing official statistics related to the conditions of Abu Dhabi society in order to support the decision makers.

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:-

- 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.

- 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.

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. Dimitry Rovas, CEng, MSc, PMI-PMP, SMRP-CMRP is a **Senior Mechanical & Maintenance Engineer** with extensive industrial experience in **Oil**, **Gas**, **Power** and **Utilities** industries. His expertise includes **Boiler** Inspection & Maintenance, **Boiler** Systems, **Boiler** instrumentation & Controls, **Boiler** Start-up & Shutdown, **Boiler** Operation & Steam System Management, **Boiler** Water Chemistry & Treatment, **Boiler** Efficiency & Waste Heat Recovery, **Boiler** Inspection & Testing, **Boiler** Maintenance, **Boiler** Troubleshooting & Safety, **Boiler** Emissions & Pollution Control, **Combustion** Analysis & Tuning Procedures, **Water Treatment** Technology, Heat Recovery Steam Generating (**HRSG**), **Impulse Tube** Installation & Inspection, **Parker Compression Fittings**, **Pipes & Fittings**, **PSV Inspection**, **Root Cause Failure Analysis**, **Tank** Design & Engineering, **Tank Shell**, **Tanks & Tank Farms**, **Vacuum Tanks**, **Gas Turbine** Operating & Maintenance, **Diesel Engine**, **Engine Cycles**, **Governors & Maintenance**, **Crankshafts** & Maintenance, **Lubrication** System Troubleshooting & Maintenance, **Engines/Drivers**, **Motor** Failure Analysis & Testing, **Motor** Predictive Maintenance, **Engine** Construction & Maintenance, **HP Fuel Pumps & Maintenance**, **Fired Equipment** Maintenance, Combustion **Techniques**, **Process Heaters**, Glass Reinforced Epoxy (**GRE**), Glass Reinforced Pipes (**GRP**), Glass Reinforced Vent (**GRV**), **Mechanical Pipe Fittings**, **Flange Joint Assembly**, Adhesive Bond Lamination, **Butt Jointing**, **Joint & Spool Production**, **Isometric Drawings**, **Flange Assembly** Method, **Fabrication & Jointing**, Jointing & Spool Fabrication, **CAESAR**, **Pipe Stress Analysis**, **Pipe Cuttings**, **Flange Bolt Tightening** Sequence, **Hydro Testing**, **Pump** Technology, Fundamentals of **Pumps**, **Pump** Selection & Installation, **Centrifugal Pumps & Troubleshooting**, **Reciprocating & Centrifugal Compressors**, **Screw Compressor**, **Compressor** Control & Protection, **Gas & Steam Turbines**, **Turbine** Operations, **Gas Turbine** Technology, **Valves**, **Process Control Valves**, **Bearings & Lubrication**, Advanced **Machinery Dynamics**, **Rubber Compounding**, **Elastomers**, **Thermoplastic**, **Industrial Rubber Products**, **Rubber** Manufacturing Systems, **Heat Transfer**, **Vulcanization Methods**, **Process Plant Shutdown & Turnaround**, **Professional Maintenance Planner**, Advanced **Maintenance Management**, **Maintenance Optimization & Best Practices**, **Maintenance Auditing & Benchmarking**, **Material Cataloguing**, **Reliability** Management, **Rotating Equipment**, **Energy Conservation**, **Energy Loss Management** in Electricity Distribution Systems, **Energy Saving**, **Thermal Power Plant** Management, **Thermal Power Plant** Operation & Maintenance, **Heat Transfer**, **Machine Design**, **Fluid Mechanics**, **Heating & Cooling Systems**, **Heat Insulation Systems**, **Heat Exchanger & Cooling Towers**, **Mechanical Erection**, **Heavy Rotating Equipment**, Material Unloading & Storage, Commissioning & Start-Up. He is currently the **Project Manager** wherein he is managing, directing and controlling all activities and functions associated with the domestic heating/cooling facilities projects.

During his life career, Mr. Rovas has gained his practical and field experience through his various significant positions and dedication as the **EPC Project Manager**, **Maintenance Manager**, **Mechanical Engineer**, **Field Engineer**, **Preventive Maintenance Engineer**, **Lead Rotating Equipment Commissioning Engineer**, **Construction Commissioning Engineer**, **Offshore Lead Maintenance Engineer**, **Researcher**, **Instructor/Trainer**, **Telecom Consultant** and **Consultant** from various companies such as the Mytilineos Aluminium Group, Podaras Engineering Studies, Metka and Diadikasia, S.A., **Hellenic Petroleum Oil Refinery** and COSMOTE.

Mr. Rovas has **Master's** degrees in **Energy Production & Management** and **Mechanical Engineering** from the **National Technical University of Athens** (**NTUA**), **Greece**. Further, he is a **Certified Instructor/Trainer**, a **Certified Maintenance and Reliability Professional** (**CMRP**) from the Society of Maintenance & Reliability Professionals (**SMRP**), **Certified Project Management Professional** (**PMI-PMP**), **Certified Six Sigma Black Belt**, **Certified Internal Verifier/Assessor/Trainer** by the **Institute of Leadership & Management** (**ILM**), **Certified Construction Projects Contractor**, **Certified Energy Auditor** and a **Chartered Engineer**. Moreover, he is an active member of **American Society for Quality**, Project Management Institute (**PMI**), **Body of Certified Energy Auditors** and **Technical Chamber of Greece**. He has further received various recognition and awards and delivered numerous trainings, seminars, courses, workshops and conferences 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, 23rd of February 2025***

0730 – 0800	*Registration & Coffee*
0800 – 0815	*Welcome & Introduction*
0815 – 0830	***PRE-TEST***
0830 – 0930	***Generic Statistical Business Process Model (GSBPM)***
0930 – 0945	*Break*
0945 – 1130	***The Set of Business Processes Needed to Produce Official Statistics***
1130 – 1215	***Standard Framework & Harmonized Terminology*** *Statistical Production Process • Methods • Components*
1215 – 1230	*Break*
1230 – 1420	***Specify Needs*** *Determine Needs for Information • Consult and Confirm Needs • Establish Output Objectives • Identify Concepts • Check Data Availability • Prepare Business Case*
1420 – 1430	***Recap***
1430	*Lunch & End of Day One*

Day 2: ***Monday, 24th of February 2025***

0730 – 0930	***Design*** *Design Outputs • Design Variable Descriptions • Design Data Collection Methodology • Design Frame and Sample Methodology*
0930 – 0945	*Break*

0945 – 1100	***Design (cont'd)*** *Design Statistical Processing Methodology • Design Production Systems and Workflow*
1100 – 1215	***Build*** *Build Data Collection Instrument • Build or Enhance Process Components • Configure Workflows*
1215 – 1230	*Break*
1230 – 1420	***Build (cont'd)*** *Test Production Systems • Test Statistical Business Process • Finalize Production Systems*
1420 – 1430	***Recap***
1430	*Lunch & End of Day Two*

Day 3: ***Tuesday, 25th of February 2025***

0730 – 0930	***Collect*** *Select Sample • Set Up Collection*
0930 – 0945	*Break*
0945 – 1100	***Collect (cont'd)*** *Run Collection • Finalize Collection*
1100 – 1215	***Analyse*** *Prepare Draft Outputs • Validate Outputs*
1215 – 1230	*Break*
1230 – 1420	***Analyse (cont'd)*** *Scrutinize and Explain • Apply Disclosure Control • Finalize Outputs*
1420 – 1430	***Recap***
1430	*Lunch & End of Day Three*

Day 4: ***Wednesday, 26th of February 2025***

0730 – 0930	***Disseminate*** *Update Output Systems • Produce Dissemination Products • Manage Release of Dissemination Products*
0930 – 0945	*Break*
0945 – 1100	***Disseminate (cont'd)*** *Promote Dissemination Products • Manage User Support*
1100 – 1215	***Archive*** *Define Archive Rules • Manage Archive Repository*
1215 – 1230	*Break*
1230 – 1420	***Archive (cont'd)*** *Preserve Data and Associated Metadata*
1420 – 1430	***Recap***
1430	*Lunch & End of Day Four*

Day 5: ***Thursday, 27th of February 2025***

0730 – 0830	***Archive (cont'd)*** *Dispose of Data and Associated Metadata*
0930 – 0945	*Break*
0945 – 1100	***Evaluate (cont'd)*** *Gather Evaluation Inputs*

1100 – 1215	***Evaluate (cont'd)*** *Conduct Evaluation*
1215 – 1230	*Break*
1230 – 1345	***Evaluate (cont'd)*** *Agree Action Plan*
1345 – 1400	***Course Conclusion***
1400 – 1415	***POST-TEST***
1415 – 1430	*Presentation of Course Certificates*
1430	*Lunch & End of Course*

Practical Sessions

This practical and highly-interactive course includes real-life case studies and exercises:-

Course Coordinator

Mari Nakintu, Tel: +971 2 30 91 714, Email: mari1@haward.org