XCELERATE TRAINING INSTITUTE

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MECHANICAL ENGINEERING

Operations Management Sustainability and Supply Chain Management in Oil and Gas Industry

DURATION	LANGUAGE	FORMAT
5 days	**English**	**Classroom / Online**

Upcoming dates

Dates	Venue	Format	Fee
15 – 19 Mar 2027	Live online	Online (live)	**€1,200**
26 – 30 Apr 2027	France	Classroom	**€4,800**
27 Sep – 1 Oct 2027	Live online	Online (live)	**€1,200**

Register or ask a question

Online: x8ti.com/course/operations-management-sustainability-and-supply-chai…

+491631686678 · info@x8ti.com

Operations Management Sustainability and Supply Chain Management in Oil and Gas Industry

Introduction

Operations Management Sustainability and Supply Chain Management involve a wide area covering manufacturing and service industries. Such industries include the Oil and Gas Industry involving several functions. These include sourcing of raw materials, materials management, operations planning and distribution. Logistics, retail, demand forecasting, and order fulfillment, include other functions.

What is operational sustainability?

Operations Management Sustainability involves the application of the concepts and tools of Operations Management to the procedures, processes, practices, and systems involved. Through this, businesses originate, generate, and deliver outputs. These outputs need to be both profitable and efficient in terms of resources. These tools are either individual or part of larger inter-organisational structures.

What is supply-chain management in oil and gas?

Supply Chain Management (SCM) manages the movement of goods and services from raw product manufacturing to consumer consumption. Both concepts can be crucial to the effective delivery of the product and services rendered by the Oil and Gas Industry.

This offers you an in-depth knowledge and understanding of Operations Management (OM) and Supply Chain Management (SCM) in the Oil & Gas Industry. After finalizing this study, you will have the technical know-how and tools to work in any area of OM or SCM. As a result, more options for job advancement are available.

Learning Objectives

The main objective of this course is to empower professionals to:

- Thoroughly understand the concept of operations management and its effects on productivity in the Oil and Gas Industry
- Thoroughly understand the concept of supply chain management and its effects on productivity in the Oil and Gas Industry
- Carefully understand the management of projects and inventory as it relates to the Supply chain
- Examine the use of software to solve varying operations management-related problems
- Strict adherence to techniques and technologies to improve productivity in the Operations and Supply chain contributes to the organization’s credibility and development
- Apply advanced tools and technologies such as forecasting and linear programming to improve operations
- Understand the several risks involved in operations and supply chain management and mitigate their effects
- Oversee various supply chain processes and operational processes

Training Methodology

Training courses are available on a variety of topics. Professionals with relevant experience give training in the appropriate domain. A portion of the training is offered in a classroom, while the remainder is delivered through practical activities. Trainees are handed projects and tasks in groups, encouraging interaction between them and the trainer. Also, role-playing is employed in our courses, as and when deemed necessary.

Benefits for Your Organisation

With professionals undergoing this course, organizations will benefit in the following ways:

- Seamless operational processes managed by trained, experienced professionals
- Application of various forecasting techniques to help the organization with effective predictive modeling
- A complete examination of existing documentation ensures that all supply chain processes meet the relevant requirements
- Regular training of other employees on the house of quality for goods and services produced
- Detailed management review possible challenges and set protocols to prevent organizational losses during product development
- Because of well-managed risks, seamless operations and an effective supply chain system, the organization’s credibility and development have improved
- Advanced tools and technology are being used to improve the quality of operations and the supply chain system

Benefits for You

Professionals opting for this course will benefit in the below-mentioned ways:

- Complete understanding and detailed information about operations management
- Greater understanding and knowledge to review current supply chain management system and make effective changes where necessary
- Improved exposure and confidence to check the operations in one’s organization and effect necessary changes
- Enhanced foresight to combat all possible forms of supply chain risks that could compromise the system
- Increased confidence and knowledge in training other professionals on key ideas in operations management sustainability
- Contributing to the organization’s reputation and progress through improved operations and supply chain management gives a sense of pride
- Greater potential to manage organizational costs by effective operations and supply chain management

Who Should Attend

- Executives and others working in different roles in the supply chain
- Managers overseeing end-to-end operations in the Oil and Gas Industry
- Organizations’ top management is in charge of making key decisions.

- Vendors involved in the supply chain at various levels
- Legal officers who play key roles in legal issues due to occupational hazards and other situations arising from supply chain risks
- Any other professional interested in learning more about operations and supply chain management is welcome to attend.

Course Outline

The course covers the following topics regarding Operations Management Sustainability and Supply Chain Management in Oil and Gas Industry:

Introduction to Operations Management

- What is Operations Management?
- What Do Operation Managers Do?
- Operations management for Goods and services in the Oil and Gas Industry.
- Challenges in Operations Management
- Operations Management Strategies
- Issues in Operations Management strategy

Introduction to Supply Chain Management

- The Supply Chain
- What is Supply Chain Management
- Types of Supply Chain Management
- Overview of Operations and Supply chain in the Oil and Gas Industry
- Supply Chain Risks
- Distribution Management
- Supply Chain Management and Operations Strategy

Project Management

- Overview of Project Management
- Importance of Project Management
- Project Planning
- Project Scheduling
- Project Controlling
- Project Monitoring
- Project Management Techniques: PERT and CPM
- Project Management with Microsoft Excel

Inventory Management

- Overview of Inventory Management
- Importance of Inventory
- Functions of Inventory
- Types of Inventory
- Managing Inventory

- Inventory Models
- Inventory Management for an Oil and Gas Company
- ABC Analysis

Design of Goods and Services

- Goods and Services Selection in Oil and Gas Industry
- Generating new products for the consumers
- Product development process
- Issues facing product design in the Oil and Gas Industry
- Oil and Gas | Defining Products
- Oil and Gas | Design Services

Material Requirements Planning

- MRP Management
- MRP Structure
- MRP in Services
- Lot-Sizing Techniques

Enterprise Resource Planning

- Financial Management
- Demand Management
- Customer Relationship Management
- Enterprise Asset Management

Forecasting

- What is Forecasting?
- Types of Forecasting
- Approaches to forecasting
- Seven Stages of Forecasting
- Importance of Forecasting
- Time-Series Forecasting
- Monitoring of Forecasts
- Oil and Gas – Forecasting

Linear Programming

- Concept of Linear Programming
- Requirements of a linear programming
- Formulating Linear Programming problems
- Graphical method of solving Linear programming
- Sensitivity Analysis
- Oil and Gas Industry | Linear Programming Application
- Case Study

Simulation

- Overview of Simulation
- Advantages and Disadvantages of Simulation
- Types of Simulation
- Monte Carlo Simulation
- Simulation with two decision variables: Case Study of a scenario in the Oil and Gas Industry
- Using Software for Simulation

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Registration Form

Operations Management Sustainability and Supply Chain Management in Oil and Gas Industry

Preferred dates: ..... Venue or online: .....

Duration: 5 days Language: .....

Please complete and email this form to us, or register online. We confirm your place and send the invoice within one working day.

Delegate information

Full name (Mr / Ms / Dr / Eng): .....

Position: ..... Telephone / mobile: .....

Official email: ..... Personal email: .....

Company information

Company name: .....

Address: .....

City / country: ..... VAT / tax number: .....

Person responsible for training & development

Full name (Mr / Ms / Dr / Eng): .....

Position: ..... Telephone / mobile: .....

Email: .....

Payment

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