



الأكاديمية العربية للعلوم والتكنولوجيا والنقل البحري
 Arab Academy for Science, Technology & Maritime Transport

Online

Digital Transformation and development of smart ports



Joint Diploma
 in cooperation with
 Valenciaport Foundation

A²⁰²¹
 April



**20
 21**

3-4-5 April provided by Port Training Institute
 6-7-8 April provided by Valenciaport Foundation



www.pti-aast.org



Digital Transformation and Development of Smart Ports

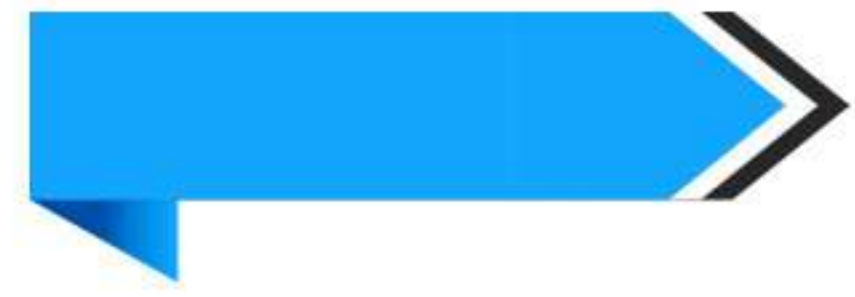


Introduction

Digital Transformation and development of smart ports provide new opportunities to enhance the efficiency, productivity, and sustainability of logistics. The concept of smart ports aims to adopt digital technologies to enable a better planning and management in ports. Smart Ports discusses sharing real-time information concerning the maritime supply chain and fostering the development and implementation of innovations. Digital technologies like big data, Internet of things, and blockchain have long been entering supply chain management in the maritime world, making supply chains more transparent, accessible, and agile. Worldwide trade and logistics flows are already experiencing changes resulting from the digital transformation. It creates transparency, efficiency and collaboration opportunities, which holds great potentials for all actors involved.

Objectives

Preparing for the future in the digital age is not easy because organizations need to develop digital capabilities. In this regard, Port Training Institute in cooperation with Valencia port Foundation organizing this Course to provide smart solutions to meet these challenges to enhance the efficiency and increase the productivity of ports. This Diploma focuses on a number of topics: -



Port Training Institute, Egypt (3 days)

● **Smart Logistics and Supply Chain Management**

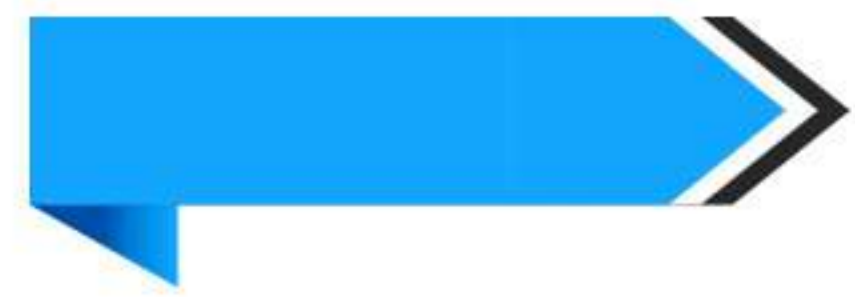
Smart technologies can help to get a clear data of the condition, location, and environment of goods, and processes at anytime, anywhere, also to make intelligent decisions and take corrective actions so that the supply chain can run more efficiently.

● **Big Data Analytics in Maritime Industry**

Big Data analytics brings many benefits to logistics and maritime industry. The data are collected from a very large network of sensors and devices. Big data analytics tools are efficient in managing, and analyzing huge amounts of data and processing in order to monitor traffic and make predictions that improve service quality.

● **Introduction to Smart Port Technologies**

One of the most potential areas that have benefited from the innovation of the smart technologies is port logistics. Smart technologies helps to provide extended customer value, transparency, cost reduction, acceleration of transactions and enhanced service network in ports.



● Digital Transformation in Ports

- The new Digital Normal for Ports.
- Port and logistics process digitalization
- Port digital business models.
- Digital resiliency.
- New digital competences for Port Managers

● Digital Platforms in the Maritime Port Sector Industry 4.0 Opportunities

- The data economy and the collaborative economy.
- Cloud computing and Edge computing.
- Internet of Things..
- Big Data
- Artificial Intelligence and Machine Learning.
- Virtual and Augmented Reality.
- Digital platforms and blockchain.
- Wireless and 5G communications.
- Automation and autonomous vehicles



Course Lecturers



Mr. Juan Manuel Díez
Head of Strategic Planning and Innovation
for the Port Authority of Valencia, Spain.

Mr. Juan is an Industrial Engineer from the Polytechnic University of Madrid a Master in Port Management and Intermodal Transport from Pontifical University of Comillas and Diploma in Digital Business from ESADE

With more than 25 years of experience in the port field, he has participated in numerous innovative projects on key issues for the development of the sector, such as sustainability, organizational transformation, security and digitization. He participates in different sectoral committees in organizations such as ESPO and MEDPORTS and actively collaborates in the TRAINFORTRADE network of UNCTAD.



CLOUD COMPUTING



SOCIAL MEDIA



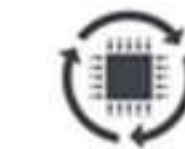
TECHNOLOGY



INTEGRATION



DIGITAL PRODUCT



DIGITAL TRANSFORMATION



DATA



DIGITAL SERVICES



INTERNET



OPPORTUNITY

Course Lecturers



Mr. Miguel Llop Chabrera
The Digital Transformation Director
at Fundación Valenciaport, Valencia, Spain.

Mr. Miguel is Telecommunications Engineer - Polytechnic University of Valencia. Certified Project Management Professional (PMP) ® - Project Management Institute. IBM Blockchain Foundation for Developers course certificate - Coursera.

His experience is in the direction and technical management of R + D + i projects specialized in Digital Transformation, Port Community Systems, Information and Communication Technologies, Internet



Course Lecturers



Prof. Amr B. Eltawil

Professor of Industrial Engineering and Systems Management Department
Dean, School of Innovative Design Engineering.
Secretary General – E-JUST Board of Trustees
Egypt-Japan University of Science and Technology.

Prof. Amr was a P/T information technology consultant, Vintex Quality Care, Miami, Florida, USA, also a visiting lecturer at Beirut Arab University, Lebanon, Visiting Scientist – Department of Industrial Engineering, University of Miami, Florida, USA. Teaching Assistant – Production Engineering Department, Faculty of Engineering, Alexandria University, Egypt. He is an Expert in (Supply chain management; Production engineering; Operations research, Simulation modeling and analysis; Management information systems; Decision support systems design and development; Computerized maintenance management systems, Advanced analytics; Data modeling and statistical analysis for decision making).



CLOUD COMPUTING



SOCIAL MEDIA



TECHNOLOGY



INTEGRATION



DIGITAL PRODUCT



DIGITAL TRANSFORMATION



DATA



DIGITAL SERVICES



INTERNET



OPPORTUNITY

Course Lecturers



Dr. Mohamed Mahmoud Ali
President Assistant for Technology Development
Associate Professor, Collage of Management & Technology (CMT)
Arab Academy for Science, Technology and Maritime Transport

Dr. Mohamed was the Director of the Computer, Network and Data Center, currently he is Designing and Implementing the strategy, goals and projects for developing the technology in one of the biggest universities in Egypt in associate with the Arab Academy president, Also, working as an Associate Professor, Collage of Management & Technology (CMT) delivering different BIS courses such as networks and security courses, Also research in different communication and computer networks fields.



CLOUD COMPUTING



SOCIAL MEDIA



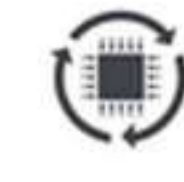
TECHNOLOGY



INTEGRATION



DIGITAL PRODUCT



DIGITAL TRANSFORMATION



DATA



DIGITAL SERVICES



INTERNET



OPPORTUNITY

Course Lecturers



Mrs. Marcelle Milade Sharobime
IT - Marketing and Research Sector Head,
Alexandria Container & Cargo Handling Co.

Mrs. Marcelle is a member in many responsible committees such as Tariff committee, and the Advisory committee in Faculty of computing & Information, with a total of more than 35 years of experience in the field of Computer engineering.



CLOUD COMPUTING



SOCIAL MEDIA



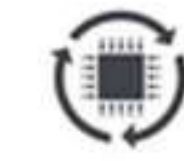
TECHNOLOGY



INTEGRATION



DIGITAL PRODUCT



DIGITAL TRANSFORMATION



DATA



DIGITAL SERVICES



INTERNET



OPPORTUNITY

Contact us



Port Training Institute

Alexandria Port - Beside Gate BO. 27
P.O.Box 123 Sidi Gaber - Alexandria
Mobile : (+2)01006009877
(+2)01001708914

Tel : (+20 3) 4865087 - 4843859
Fax : (+20 3) 4829930
e-mail : info@pti-aast.org
website : www.pti-aast.org



Valenciaport Foundation

Sese APV, Fase III, Avda. Del Muelle del Turia,
S/N 46024 Valencia - Spain
Tel : +34 963 939 400
Fax : +34 963 939 461
e-mail : formacion@fundacion.valenciaport



CLOUD COMPUTING



SOCIAL MEDIA



TECHNOLOGY



INTEGRATION



DIGITAL PRODUCT



DIGITAL TRANSFORMATION



DATA



DIGITAL SERVICES



INTERNET



OPPORTUNITY



www.pti-aast.org

