



# Arab Academy

for Science, Technology & Maritime Transport



## Container Terminals Automation (A joint Diploma)



1<sup>st</sup> Week ( 13-17 Feb,2022) in Alexandria, Egypt  
2<sup>nd</sup> Week ( 18-22 Feb,2022) in Marseille, France



# EGYPT





(A JOINT DIPLOMA)

# CONTAINER TERMINALS AUTOMATION

## ➤ INTRODUCTION



CONTAINER TERMINALS PLAY AN IMPORTANT ROLE IN ECONOMY BECAUSE THEY ARE CENTRAL HUBS IN THE GLOBAL SUPPLY NETWORK. DUE TO THE HIGH COST OF EQUIPMENT AND RESOURCES IN CONTAINER TERMINALS, IT IS IMPORTANT TO PLAN FOR CONTAINER HANDLING IN MINIMUM TIME WITH EFFECTIVE USE OF RESOURCES. WHEN THE STACKING YARD AND HORIZONTAL TRANSFERS BETWEEN THE QUAY AND THE YARD ARE ALL AUTOMATED, THE CONTAINER TERMINAL IS CONSIDERED TO BE AUTOMATED.

AS MEGA CONTAINER SHIPS ARE CALLING AT THE PORT, THE SHIP WAITING TIME, THE AVAILABLE STACKING AREA, AND THE NUMBER OF HANDLING EQUIPMENT CAN BE LIMITED. CONTAINER TERMINAL IS BEING FORCED TO DEVELOP AND IMPROVE THE OPERATION PLAN IN ORDER TO MEET DEMANDS FOR LOADING/UNLOADING MEGA CONTAINER SHIPS.

AUTOMATION WOULD HELP AVOID PORT CONGESTION, DECREASE PORT STORAGE CHARGES AND REDUCE DEMURRAGE & DETENTION. THE AUTOMATION OF THE OPERATION PLAN IS ONE OF THE MOST DIFFICULT CHALLENGES IN CONTAINER TERMINALS.







## » OBJECTIVES

PORT TRAINING INSTITUTE IN COOPERATION WITH MARSEILLE PORT ORGANIZING THIS DIPLOMA TO PROVIDE PARTICIPANTS THE SKILLS OF CONTAINER TERMINALS PLANNING USING MODERN TECHNIQUES, WITH A FOCUS ON SKILLS OF ENHANCING EFFICIENCY AND INCREASING THE PRODUCTIVITY OF CONTAINER TERMINALS.

THIS DIPLOMA WILL DISCUSS A NUMBER OF RELATED TOPICS TO THE AUTOMATION OF OPERATION PLAN IN CONTAINER TERMINALS INCLUDING:

## » PORT TRAINING INSTITUTE TOPICS

- CONTAINER TERMINAL OPERATION
- LOADING AND UNLOADING OF CONTAINER SHIPS
- SMART CONTAINER TERMINALS
- INTERNET OF THINGS AND FUTURE OF CONTAINER TERMINALS
- AUTOMATION OF OPERATION PLAN







## ➤ PORT OF MARSEILLE FOS TOPICS

- THE ROLE OF THE STEVEDORE IN THE SUPPLY CHAIN
- SAFETY AND SECURITY IN THE TERMINALS
- PORT OF MARSEILLE FOS AND CONTAINER TERMINAL VISIT
- MANAGEMENT OF A CONTAINER TERMINAL AND ARMORIAL RELATIONSHIP
- FLUIDITY AND RELIABILITY OF THE PORT PASSAGE  
+ PRACTICAL CASE FOR ASSESSMENT OF THE ACHIEVEMENT OF PROGRAM OBJECTIVES



## ➤ GOALS :

- UNDERSTAND THE PLACE AND ROLE OF HANDLING IN SUPPLY CHAIN,
- OPTIMIZE THE PERFORMANCE OF A CONTAINER TERMINAL.







## **>> SERVICES INCLUDED IN THE RATE**

ACCOMMODATION DURING THE COURSE (INCLUDING BREAKFAST, AT NEARBY HOTELS) - COFFEE BREAKS DURING THE CLASS SESSIONS.  
DIPLOMA AWARDED BY AASTMT AND L'INSTITUT DE FORMATION PORT DE MARSEILLE FOS (PRINTED DURING THE LAST DAY OF THE COURSE),  
CITY TOUR, STATIONERY: PENS, BOOK NOTES, FOLDERS, ETC.



## **>> TRAINING METHODS:**

- THEORETICAL AND PRACTICAL INFORMATIONS
  - EXPERIENCE EXCHANGE
    - PRACTICES BASED ON REAL EXPERIENCES OF THE TRAINEES
- POWERPOINT - WRITTEN SUPPORT





# FRANCE







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