



Project No.
2012

Date
2025

Doc. No.
2012-MECH

Serial No
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Rev.
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Proj. dep.
Mechanical

EOTSS Doc. CODE :

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المعهد الهندسي لخدمات التكنولوجيا والبرمجيات

Engineering office for Technology and Software Services

AVEVA Diagrams Course (P&ID)



Code: 2012-MECH

Duration: 24 Hours

Level: Intermediate

Target Audience: Process Engineers, P&ID Designers

Course Objectives:

Design intelligent process diagrams

Link P&ID to 3D models

Automate document and report generation

Modules:

AVEVA Diagrams Interface

Symbol Libraries and Standards

Main Branch: United building – E Shams –Front NBE
, El Siouf _Alexandria

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Engineering office for Technology and Software Services

P&ID Creation and Process Flow
Data Linking to E3D and PDMS
Validation and Consistency Checks
Automatic Reports and Datasheets
Integration with Engineering Data
Final Diagram Project
AVEVA Diagrams Course (P&ID)

Outline:

Module 1: AVEVA Diagrams user interface
Module 2: Symbol libraries and P&ID standards
Module 3: Creating intelligent P&ID drawings
Module 4: Linking diagrams to 3D models
Module 5: Data consistency and validation checks
Module 6: Reports and datasheets automation
Module 7: Exporting to engineering databases
Module 8: Final process diagram project

Outcomes:

Create process-intelligent P&ID diagrams
Ensure validation between diagrams and 3D models
Automate documentation and report output
Integrate P&ID with plant engineering systems

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