

13 July 2021
Tuesday SGT 3pm~4pm



PROGRAMME

3.00pm	Opening & Housekeeping
3.02pm	Overview of SWAT
3.05pm	Demonstration Video
3.15pm	Safety Induction Course
3.20pm	Other Courses (Underway)
3.30pm	SWAT Enrolment
3.40pm	SWA Digi Expo (Preview)
3.50pm	Q & A and Closing

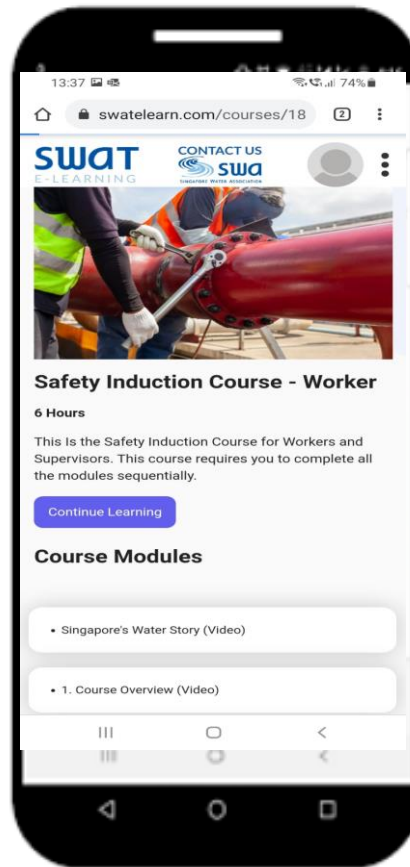
Overview

SWAT (SWA Training) is an online eLearning platform initiated and developed by SWA for the convenience of certification and continuance eLearning for the Water Professionals and O & M Contractors via website access using mobile phones or PCs without face-to face interactions or site coaching and at own pace, own schedule.

Supported and Guided by



Flexibility to launch with Phone, Ipad, Tablet or PC



Immersive Video Learning with
rewind & forward functions

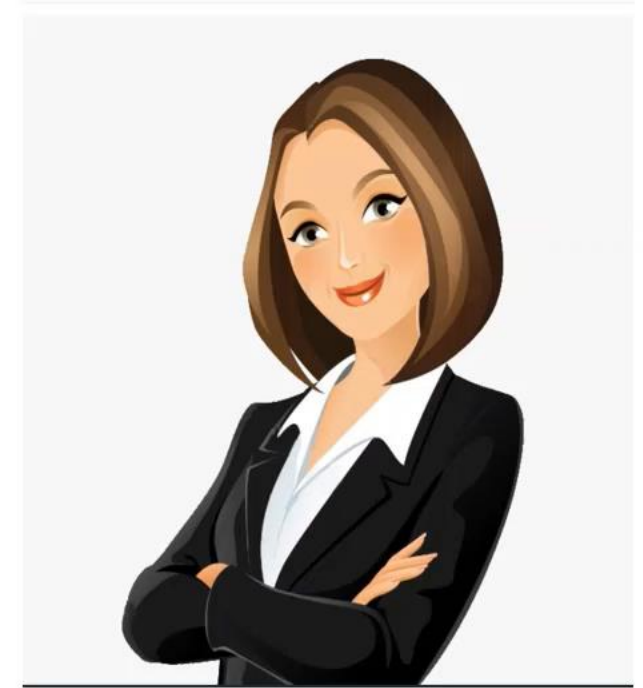


Quizzes and Mock Assessments as checkpoints



Timed Assessments with
multi-languages Q & As

- Face Recognition Authentication
- SMS OTP Authentication
- Multi-language Interface
- Employee (User) Login
- Employer (Audit) Login
- Saves time – Learning at own pace
- Quizzes, mock and final assessments
- News feed articles and video resource learning
- Certification and course progress reports
- Every 6-month refresh modules



Safety Induction Course

Q&A: English, Chinese, Tamil & Bengali

(June 2021)

Course Objective

- Understand the Workplace Safety and Health Act
- Compliance to worksite Rules & Regulations
- Identify the Common Hazards in Worksites
- Awareness of PPE Requirements & Proper Usage

Learning Outcome

For Workers

- Permit-to-Work
- Lock Out and Tag Out (LOTO) procedures
- Practice Good Workplace Housekeeping
- Respond to Site Emergencies

For Supervisors

- Apply Permit-to-Work
- Lock Out and Tag Out (LOTO) procedures
- Practice Good Workplace Housekeeping
- Respond to Site Emergencies
- Apply the Risk Management Concept
- Awareness of the Procedures for Reporting of Incidents & Hazards

Safety Induction Course

Q&A: English, Chinese, Tamil & Bengali

- 0. Singapore's Water Story (Credits to PUB Corporate Video)
- 1. Course Overview
 - 1.1 to 1.3. Understand the Workplace Safety and Health Act
- 2. Compliance to worksite rules & regulations
- 3. Identify the Common Hazards in the Worksites
 - 3.1. Fire and Explosions Hazards and its Control Measures
 - 3.2. WORK-AT-HEIGHTS (WAH) Hazards and its Control Measures
 - 3.3. Slips, Trips and Falls and its Control Measures
 - 3.4. Mech Hazards and its Control Measures
 - 3.5. Electrical Hazard and its Control Measures
 - 3.6 Lifting Operations & It's Preventive Measures
 - 3.7 Confined Space Hazards & it's Preventive Measures
 - 3.8. ErgonomicMaterial Handling Hazards & it's Preventive Measures
- 4. PPE Requirement & Proper Usage
 - 5.1 PERMIT TO WORK
 - 5.2 APPLY PERMIT TO WORK (Supervisor Level)
- 6. Comply Lock Out and Tag Out (LOTO) Procedures
- 7. APPLY RISK MANAGEMENT CONCEPTS (Supervisor Level)
- 8. Practise Housekeeping and Waste Management
- 9. Procedures for Reporting of Incidents & Hazards (Supervisor Level)
- 10. Respond to Site Emergencies

Project Management

Q&A: English, Chinese, Tamil & Malay

(July 2021)

Course Objective

- To assist in executing successful water and utilities projects.
- Aims to give insights in management skill sets to be applied in projects.
- Covers project work scope from design, execution to completion.
- Applicable to all discipline sectors and organisations from client, consultants, design & built main contractors and subcontractors.

Learning Outcome

- Understand cost and time outcomes on projects.
- Understand overruns causes
- Recognise risk allocation principles.
- Extensions of time and delay analysis methodology
- Keeping project on track

Project Management

Q&A: English, Chinese, Tamil & Malay

(July 2021)

Course Outline

1. Overview and Context
 - 1.1 Introduction
 - 1.2 Singapore Water Projects
 - 1.3 Challenges of Project Management
 - 1.4 Learning and Case studies
2. Project Development
 - 2.1 Procurement to Completion
 - 2.2 Project Schedule and Work scope
 - 2.3 Risk allocations and management
 - 2.4 Retention and Finance management
3. Project Delay
 - 3.1 Managing suspensions and accelerations
 - 3.2 Project Delay analysis
4. Planning and Project Programmes
 - 4.1 Overview on project programmes
 - 4.2 Extensions of time and liquidated damages
 - 4.3 Administration Governance
5. Arbitrating Disputes on Projects
 - 5.1 Outline of Disputes Arbitration
 - 5.2 Types of Arbitration - Institutional or AdHoc
 - 5.3 Arbitration Proceedings

Contract Drafting

Q&A: English, Chinese, Tamil & Malay
(July 2021)

Course Objective

- To assist in executing successful water contracts.
- Aims to give insights contracting and drafting skill sets.
- Covers contract development from tender negotiations, contract execution to claim and dispute settlement.
- Applicable to all discipline sectors and organisations from client, consultants, design & built main contractors and subcontractors.

Learning Outcome

- Understand contract terms and definitions.
- Apprehend contract administration essence.
- Reduce damage claims and issues.
- Understand Contract Law and PSSCOC terms
- Improved practices on disputes resolutions

Contract Drafting

Q&A: English, Chinese, Tamil & Malay
(July 2021)

Course Outline

1. Contract Fundamentals
 - 1.1 Contract Law
 - 1.2 PSSCOC Terms
 - 1.3 Breach, Damages and Causation
2. Contract Administration
 - 2.1 Contract Risks
 - 2.2 Contract Terms and Definitions
 - 2.3 Contract Archives
3. Contractual Claims
 - 3.1 Suspensions and Accelerations
 - 3.2 Interim Contract claims
 - 3.3 Delay Claims Evaluation
4. Defects and Risks
 - 4.1 Contractual settings
 - 4.2 Design and defects
 - 4.3 Other mitigating risks
5. Claims and Disputes
 - 5.1 Negotiation vs Mediation
 - 5.2 Arbitration vs Litigation
 - 5.3 Payment Security

Course Objective

- Gain knowledge about the Internet of Things (IoT)
- Understand the potential of IoT and AI to transform the water sector
- Provide real-time visibility into daily operations

Learning Outcome

- Understand basics of IOT, Cloud, AI/ Machine Learning and terminologies.
- Be updated on emerging technologies in IOT
- Applications of IoT and AI
- Apprehend smart operations alert design

Course Outline

1. Overview

- 1.1 Industry Evaluation
- 1.2 Smart 4.0

2. Introduction to the Internet of Things (IoT)

- 2.1 Sensors and smart meters
- 2.2 Wireless communication protocols
- 2.2 Smart Operations Alert Designs

3. Introduction to Artificial Intelligence (AI)

- 3.1 Design and Development
- 3.2 Information processing
- 3.3 Innovation considerations**

4. Applications

- 4.1 Internet of Things (IoT)
- 4.2 Artificial Intelligence (AI) / Machine Learning

5. Case Studies

- 5.1 Evaluation
- 5.2 Analysis
- 5.3 Conclusion

Data Analytics

Q&A: English, Chinese, Tamil & Malay (August 2021)

Course Objective

- Understand importance of data analytics
- Identify industry trends
- Detect abnormalities
- Improve operations and processes

Learning Outcome

- Learn about data analytics algorithms
- Apprehend how to analyse real-time data
- Applying data analytics algorithms
- Develop actionable insights based on data processes and analysis

Course Outline

1. Introduction

1.1 Overview and Definition

1.2 Algorithms and Terminology

2. The Water Industry

2.1 How to identify industry trends

2.2 How to detect abnormalities

3. Data Process and Visualisation

3.1 Understand Data Process and Visualisation

3.2 Reading and collecting data

3.3 Analyse real time data or data sets

4. Applications

4.1 Process Executions with analytical algorithms

4.2 Improvement to operations

5. Action & Planning

5.1 Design and Conceptualism

5.2 Developing actionable insights

Course Objective

- Engage the water professionals on the emerging Smart Water Technologies
- Enhance efficiency, safety and resilience to operations
- Apprehend smart technology applications

Learning Outcome

- Real case studies deployed in Singapore Water Projects
- Understand the SWM architecture
- Overcome challenges of existing technologies
- Guidance on SWM embarkment at work
- Digital transformation to Water Management

Course Outline

1. Overview and Context

- 1.1 Introduction
- 1.2 Singapore Water Projects
- 1.3 Case studies

2. Advantages and Limitations

- 2.1 Advantages of Smart Water Management
- 2.2 Limitations of Smart Water Management

3. Data Access and Visualization

- 3.1 Sensors and Devices
- 3.2 Device Management
- 3.3 Water Applications

4. Data Analytics

- 4.1 Introduction
- 4.2 Alerts and Notifications
- 4.3 Apprehend Artificial Intelligence

5. Digital Transformation

- 5.1 Smart Water Management Embarkment
- 5.2 Bringing IOT to work
- 5.3 Enable change management

Course Objective

- Engage the water professionals on the emerging Digital Technologies
- Enhance efficiency, safety and resilience to digital operations
- Apprehend digital applications

Learning Outcome

- Understand the Digitalised Water Framework
- Overcome existing technological challenges
- Digitalisation guidance to Water Technologies
- Shaping the Water Digital Landscape

Course Outline

1. Overview

- 1.1 Introduction and background
- 1.2 Terminology and Definitions

2. Pits and Falls of Digitalisation

- 2.1 Gearing up on advantages
- 2.2 Learning from falls

3. Data Analytics

- 3.1 Introduction
- 3.2 Applications
- 3.3 Case Studies

4. Internet of Things

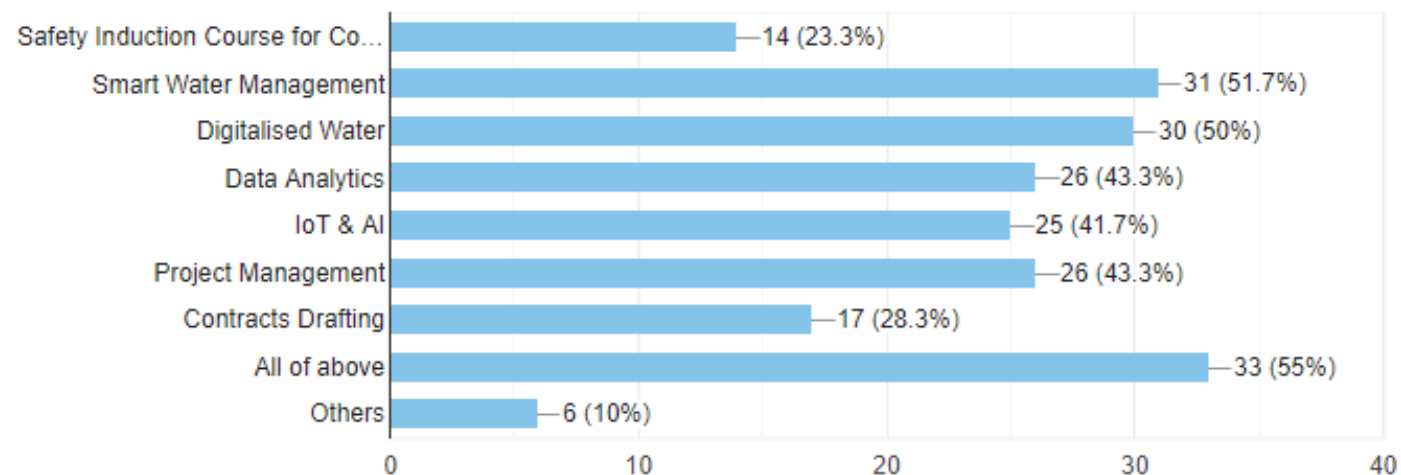
- 4.1 Introduction
- 4.2 Applications
- 4.3 Case Studies

5. Artificial Intelligence

- 5.1 Introduction
- 5.2 Applications
- 5.3 Case Studies

Would you be interested in any specific Courses ? (You may select one or more options)

60 responses



If Others, please specify :

4 responses

Technical workshops on the domestic and industrial wastewater treatment plants

Solutions for water treatment

RO Design

Engineering Consultant

SWAT ELEARN

LAUNCH OFFER *TODAY*

(TILL 31 AUGUST 2021)

\$10/user per **year** per course
(Exclusive for SWA Members)

*

(\$30/user per year per course for Non Members)

* Join us if you are not a member yet *

ENROLMENT

(by employer only)

Download Form

<https://bit.ly/SWATEnrol>


Return Excel Form to
SWAT@swa.org.sg

Tel : +65 6515 0812 enquiry@swa.org.sg

SWAT eLearning Enrolment Form

Company Name	
Submitted by	
Submission date	
E-mail	
Tel no (Office)	
Hand Phone No * Required to send OTP for accessing the E-Learning platform.	
Code/Password (Leave this blank)	

Course : Safety Induction Course /Smart Water Management /Digitalised Water/Data Analytics / IOT & AI/ Project Management / Contracts Drafting
* Circle where appropriate and use different sheet/tab for different course. Do add the sheets for additional workers. Thank you

SN	Name	NRIC/ Work Permit No	HP No	Picture format: Jpeg/PNG Size <200K	Course Level Worker/Supervisor (W/S)	user ID (leave this blank)
Example	John Doe	S1234567J	98765432		W	
1						

24/7 Digi EXPO

- 24/7, Yearly Subscription for Exhibitor
- Netflix Style browsing & Account Profile
- FREE for Trade Visitor
- Incentives for Trade Visitors
- Digital Name Card Exchange Module.
- Visitor Portal & Registration Module
- Business Genre & Categories profile
- Corporate video playback
- Company trailer & synopsis
- Banner Homepage Advertisement
- Business Trending & Bumping features
- Enterprise Resource Page - Grants
- Local & Overseas Project Opportunities
- Careers Dashboard - Job Postings



Opportunities

'Netflix' Account

Banner Ad

Careers Board

Enterprise Resource

Golden Ticket

Trending Feature

Address book

Activity Log

Bumping Features

SWA DIGITAL EXPO

EXPLORE THE WORLD OF WATER

Key Benefits

For Booth Vendors:

1. Gain leads for business via the Digital Expo booth
2. Banner advertisement opportunity and complimentary bumping tool
3. Post jobs to potentially hire new talents into their team
4. Gain potential B2B partners via networking on the platform
5. Activity log to keep track of visits and unlimited updates to portal
6. Stay up to date with industry events via the Programmes Feed and Resource Pages

For Trade Visitors:

1. Easy yellow pages for business via the Digital Expo Catalogue in 'Netflix' profile
2. Browse job listings or create customised job alerts to potentially join the industry
3. Find potential business partners via networking on the platform
4. Maintain own address book within the portal
5. Exchange namecards to gain golden tickets in exchange for FREE SWA individual membership
6. Stay up to date with industry events via the Programmes Feed and Resource Pages

SWA DIGITAL EXPO

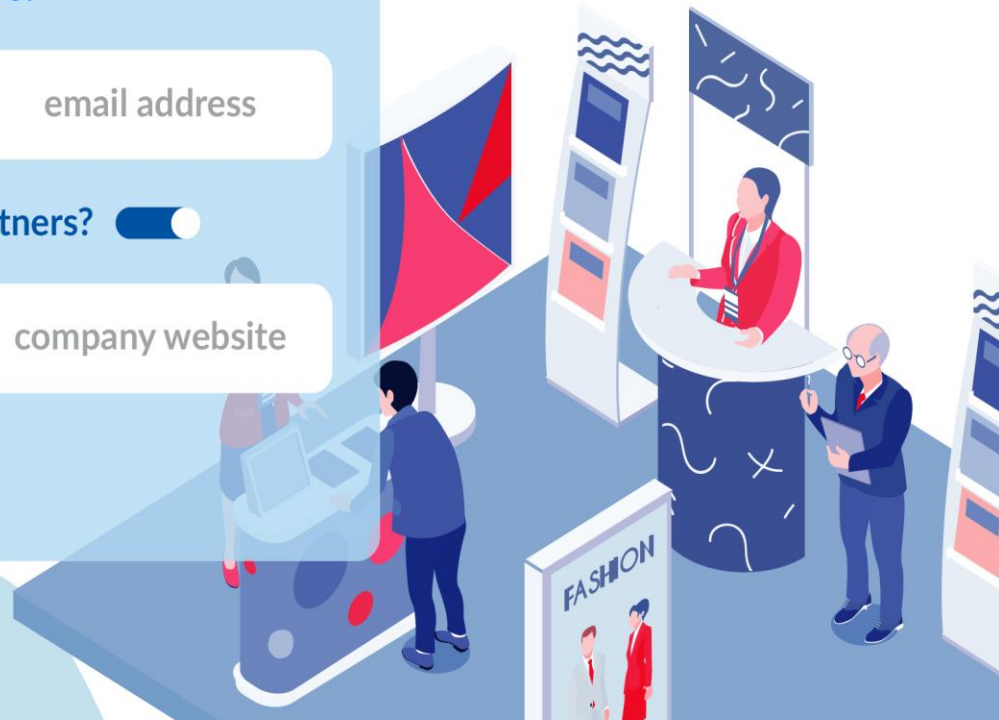
EXPLORE THE WORLD OF WATER

VISITOR'S PORTAL REGISTRATION

Please fill in your details to create your digital namecard
in order to proceed to the digital expo.

Are you from a company looking for business partners? ☒

Create namecard





SWA DIGITAL EXPO

EXPLORE THE WORLD OF WATER

REGISTRATION COMPLETE

This is your digital namecard. It will be exchanged with the company's whose booth you visit during your visit to this digital expo.

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ASSOCIATE MEMBERS

SWA 24/7 Digi Expo



AHF INDUSTRIES SINGAPORE

Specialising in valves,
valves automation &
water control solutions.



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ASIA

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LIMITED



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ASIA



AQUAX
PTE LTD



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AVR SINGAPORE
PTE LTD



BE
北



COMPANY VIDEO

Quality in Service ... Quality in Supply... Since 1987

Exchange Namecards

Call (Mobile only)

Send email

ABOUT US

PAST PROJECTS

OUR SERVICES

BRANDS WE CARRY

OUR CLIENTELE

AHF Group - At A Glance

Since 1987, AHF Industries has gained recognition as an established agent/ distributor of industrial & commercial suppliers of valves, valve automations & control solutions and is currently one of the market leader in Singapore.

AHF Industries is a full service multi-discipline organization for valves supplies, valve automation and control solution for Oil & Gas, Marine, Petrochemical and Pharmaceutical Industries. Most of our valves manufacturers have obtained ISO 9000/1, ISO 200, ISO 14001, API, TUV, ABS, LLOYD, BVQI, RWTUV, CE, KSB, VERITAS, NKK, UL/FM and etc certifications which complied to International Standard.

Our Vision is to become world-class company in the Asia-Pacific Region for valves supplies, valve automation and control solution.

Our mission is our commitment to provide excellent products and services to our customers in Asia-Pacific Region with Great Trust and Satisfaction in term of our services and



SWA DIGI EXPO PREVIEW OFFER (TILL 31 AUGUST 2021)

\$240 per year
(Exclusive for SWA Members)



THANK YOU

FOR SWAT AND SWA DIGI EXPO SUBSCRIPTIONS,
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