



## WSQ Process - Operate Distributed Control System

### Operate Distributed Control System

(SPUR\* Funded)

#### Competency Unit Code

PI-WAT-201C-1

#### Course Overview

This 3-day course is designed using Singapore Workforce Skills Qualification (WSQ) Framework to give participants the knowledge and skills in operating the Distributed Control System for normal control of a process plant.

The WSQ is a national certification and qualification system, whereby Statement of Attainment (SOA) and qualifications are issued by Workforce Development Agency. It is competency-based where the training prepares learners to be competent in operating the DCS.

#### Who can take this course

Operators, plant operation specialists and engineers who are working in process plants.

#### Program Prerequisite

Participants must have the following criteria:

- At least one year working experience as a field operator/technician in process plant
- Be able to interpret process flow drawings of process plant
- Have knowledge of the basic instruments of process control loop
- Be able to listen, speak, read and write English at a proficiency level equivalent to the Employability Skills System (ESS) level 6
- Be able to use numeracy skills at a proficiency level equivalent to ESS level 6

#### Training Pathway

Classroom training- Facilitated Learning Pathway(FOP)

#### Course Assessment

Assessment is conducted 10 days from the completion of the last training day.

Assessment duration: 3 hours

#### Methodology

Lectures , Demonstrations and Discussions

*SPUR or Skills Programme for Upgrading and Resilience, is an enhanced funding support scheme developed by the Singapore Workforce Development Agency (WDA) in consultation with the tripartite partners including the National Trades Union Congress (NTUC) and the Singapore National Employers Federation (SNEF).*

#### Course Outline

##### Call up process displays on DCS

- Use appropriate function keys to call up various types of process displays on DCS
- Monitor operating conditions of a process plant by calling up the relevant process displays on DCS
- Evaluate deviations of process variables from the steady state condition of a process plant on DCS

##### Perform control operations using DCS

- Perform control operations for different types of process variables
- Switch control modes of controllers for manual, automatic or auto-cascade control
- Operate different types of control schemes
- Operate on-off control points for field equipment

##### Monitor historical data on DCS

- Monitor historical data for appropriate process points using trend displays
- Set appropriate trend setting to provide required historical data
- Analyse the historical data for possible causes of process abnormalities

##### Respond to process alarms on DCS

- Interpret different types of process alarms
- Analyse the causes of process alarms
- Rectify process variables that are in alarm state

#### Certification

A Statement of Attainment (SOA) from the Singapore Workforce Development Agency (WDA) will be issued on successful completion of module.

Trainees must attain a minimum of 75% attendance and sit for assessment.

#### Duration

3 days, 8.30am to 5.30pm

#### Venue

Yokogawa Engineering Asia Pte Ltd  
5 Bedok South Road  
Singapore 469270

#### Enquiries

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### Course Grants

	Course Fee Subsidised by WDA % of Course Fee	Course Fee (excludes 7% GST)	Course Fee Subsidised by WDA (excludes 7% GST)	Course Fee Paid by Per Trainee (excludes 7% GST)	Course Fee Paid by Per Trainee (includes 7% GST)	ABSENTEE PAYROLL
Employees aged 40 years old and above with "A" level qualification and below	Up to 90% of course fee	S\$2,100	S\$1,890	S\$210	S\$224.70	90% of hourly basic salary (capped at S\$10/hour)
Other Local Worker	Up to 90% of course fee	S\$2,100	S\$1,890	S\$210	S\$224.70	80% of hourly basic salary (capped at S\$10/hour)
Foreign Worker		S\$2,100	No Subsidy		S\$2,247.00	* Companies are to apply and claim for wage compensation component (absentee payroll) for worker directly for SRP net.

The above funding is applicable only for Singaporeans and Permanent Residents under SPUR funding .

### Refund Policy

Written Notice of Withdrawal is received	Percentage of refund
5 or more working days before course commencement date	100%
1- 4 working days before course commencement	50%
On or after the course commencement	0%

Refund will be made within thirty days from the date of approved refund letter.

### Withdrawal Policy

1. Request for withdrawal must be made in writing to Yokogawa Engineering Asia Pte Ltd.
2. Trainee whom is under the Company sponsorship, must submit withdrawal request written by the authorized representative of the company.
3. There will be No Refund of course fee if the registered participant who does not show up for course, they will be regard as "Withdrawal without notice".