

DKI TAS Training

On Site Systems Maintenance



Objective

To provide site operational and maintenance staff sufficient knowledge and understanding of DKI TAS hardware to enable them to undertake 1st level support to the site using the following as a guide:

- Operational Staff to identify fault location; operate equipment in a diagnostic / maintenance mode; replace faulty equipment / module; calibration of equipment.
- Maintenance Staff to identify fault specific location; operate equipment in a diagnostic / maintenance mode; replace faulty equipment / module; identify and repair faults in electrical or hydraulic systems; calibration of equipment.

Recommended Participants

Participants in this program should include;

- Operational personnel
- Site System Administrator
- Site Supervisor
- Shift Supervisors
- Site Maintenance Staff
- Site Maintenance Engineer
- Maintenance Technicians
- 3rd Party Contractors if used for site maintenance

Pre-requisite

Attendees should have a sound understanding of the site operational processes and a general understanding of the overall TAS architecture.

Note: Other courses are available to cover this if required.

Overview

The course is predominately hands on with some supporting class room sessions and covers the following equipment.

1. Control Room Office
 - Computer Systems
 - PLC Systems
 - Communication Systems
 - Site Access Control Systems
2. Loading Bays
 - Bay Load Controller (BLC)
 - Other Hydraulic & Electrical Equipment
3. Tank Farm & Pumps

Duration

This course is available in two forms:

- A 4 day course for personnel at a site that has just had a new DKI system and equipment installed and commissioned.
- A 2 day refresher course for personnel at a site that has been operating a DKI system for some time.

Note: This course is recommended after a new system has been implemented and then every 2 years or when significant site staff changes occur.

Attendees per course

As there is a heavy practical content in these courses it is recommended that attendees be restricted to five for each Loading Bay available for training. A Course Leader can manage 2 adjacent loading bays if they are available extending the maximum attendees to ten.

Mutual Success Through Teamwork With Customers

Modules

The course is predominately hands on with some supporting class room sessions and covers the following:

1. Overview of architecture & operation
 - System description
 - Connection & interface to Control Room systems
2. Major components (modules) location & function
 - Function of main modules
 - Location & connections of main modules
3. Other gantry equipment and interface to BLC
 - Interlocks
 - Overfill Protection
 - RTD's
 - Valves
 - Meters
4. Typical operation - detailed description
 - Typical loading with one arm
5. Maintenance mode operation
 - Accessing & description
 - Registers
 - LCD & HV I/O Tests
6. Fault Analysis - Overview of isolating a fault to the BLC
 - How to find a fault
 - Typical checks & tests
 - Practical (inc. real faults to find)
7. Replacing Modules
 - Preparation, changing & checks with new modules
 - Special attention (EEPROM etc.)
8. Administration of items for repair
 - Paperwork
9. Nature and process of DK1 support
 - What & how is support available
 - What happens with repair items
10. Calibration
 - Requirements
 - How to change calibration data
 - Practical

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