Expert Days ACS 6000, SEPTEMBER 2009

Target group: Expert and Master level certified ACS 6000 Field Service Engineers who have NOT participated in any ACS 6000 Expert Days during year 2008. These expert days are similar to the ones held in 2008.

Pre-requisite: Completed basic ACS6000 training

Duration: 3 days

Date: Tuesday 15 Sept 2009 – Thursday 17 Sept 2009

Time: 9am – 5pm

Location: ABB University, Singapore
2 Ayer Rajah Crescent (Level 3)
Singapore 139935

Participants: Max 20

Objectives: Product news for ACS 6000

Troubleshooting of ACS 6000 converter

Give deeper know how of the ACS 6000 system based on the experience the PRU (Product Responsible Unit) has received from the field

Give participants the possibility to place questions and give feedback of the product and processes

Hands-on training

Tuesday 15th September

09.15 – 09.30	**Welcome** - **Contents and Objectives** - **Introduction of participants**
09.30 – 10.15	**MV Drives Overview**
10.15 – 10.45	**Overview DTC / NP / switching frequency**
10.45 – 11.00	**Break**
11.00 – 11.30	**Software** - **New functionality** - **Limiters** - **Software merge (new functionality, manuals, commissioning etc.)**
11.30 – 12.30	**General INU tuning, AD & SD**
12.30 – 13.30	**Lunch**
13.30 – 15.15	**Practical exercises**
15.15 – 15.30	**Break**
15.30 – 16.00	**FOR problems**
16.00 – 17.00	**FAQ *(Frequently Asked Questions)***

Wednesday 16th September

09.00 – 09.30	**Pilatus, introduction to redundant drive concept**
09.30 – 10.00	**Changes in application software**
10.00 – 10.30	**DCS800, new EXU**
10.30 – 10.45	**Break**
10.45 – 11.15	**ARU new software release / tuning**
11.15 – 12.00	**Speed controller stability** **- Process stability** **- Torsional resonance issues.**
12.00 – 13.30	**Lunch**
13.30 – 15.15	**Practical exercises**
15.15 – 15.30	**Break**
15.30 – 16.00	**Hardware changes**
16.00 – 18.00	**FAQ *(Frequently Asked Questions)***

Thursday 17th September

09.00 – 09.30	**11MVA hardware changes, limitations**
09.30 – 10.00	**New IGBT drive (Rigi)**
10.00 – 10.45	**DriveMonitor**
10.45 – 11.00	**Break**
11.00 – 11.30	**Autorestart**
11.30 – 12.00	**Encoderless, introduction and tuning**
12.00 – 12.30	**Network harmonics with ARU**
12.30 – 13.30	**Lunch**
13.30 – 15.15	**Practical Exercises**
15.15 – 15.30	**Break**
15.30 – 16.00	**MCB requirements**
16.00 – 16.30	**Brushless EXU tuning**
16.30 -	**FAQ *(Frequently Asked Questions)*/ End of workshop**

Practical exercises

3 groups with 6-7 persons / group,
1.5 - 2 hours / group

Exercise A

Inverter trouble shooting (non switching IGCT's, short circuited IGCT's...)

Location: ABB Training Centre, Singapore (Level 3)

Exercise B

DriveDebug & DriveMonitor (data loggers, trendlogwin, symbols, trend window, monitor window...)

Location: ABB Training Centre, Singapore (Level 3)

Exercise C

Tuning of Machines on the Emulator (Switching Frequency, motor parameters, flying start…)

Location: ABB Training Centre, Singapore (Level 3)