

Name: XA21 SCADA Maintenance and Operation.
Code: SE-SC-06
Time: 40 Hours
Objective: To provide the necessary tools to perform the Operation of the XA21 SCADA system. A brief description of the system hardware components is included. There is also included a description of the applications that makes stronger the system performance.
Audience: Intended Engineers and Technicians that performs the Operation of the XA21 SCADA system.

Contents	
<p><i>Day 1</i></p> <p>Introduction to the informatics systems. Introduction to the SCADA systems. Operations general view.</p> <ul style="list-style-type: none"> • XA21 Monitoring and Control. • User Logon / Logoff. • Operator Notes. • CRT Forms (displays). • Displays access by several ways. 	<ul style="list-style-type: none"> • Active alarms summary. • Alarms and events historical summary. • Acknowledged Alarm. • Manual overwrite. • Alarms and events display. • Information tag. • Control tag. • Individual display. • Alarm Enable / Disable.
<p><i>Day 2</i></p> <p>Real time acquiring and control.</p> <ul style="list-style-type: none"> • How to call several displays with a single call. • Dynamic display. • Trends graphics. • Trends graphic zooming. • Trends graphic panning. • Real Time controls. • Real Time summaries. • Communications summary. • Data summaries. • Alarm summaries. • Alarms. • Alarm displays. • Active alarm displays. • Direct alarms displays. 	<p><i>Day 4</i></p> <p>Database concepts.</p> <ul style="list-style-type: none"> • XA21 database terminology. • Required data for the database construction. • ASCII database construction. <p>AutoCAD.</p> <ul style="list-style-type: none"> • Interface. • Basic functions and tools. • Displays and drawings. • Layer management basic commands. • Operation displays construction.
<p><i>Day 3</i></p> <ul style="list-style-type: none"> • Alarm acknowledgement. • Dynamic display. • Silencing alarms. 	<p><i>Day 5</i></p> <p>System basic concepts.</p> <ul style="list-style-type: none"> • Using UNIX. Commands and utilities. • Reading and copying UNIX files. • Using the "vi" editor. • SQL commands. • Selecting and saving Sybase databases. • Backup and restore of files and database stored in a tape. • XA21 start and stop.