

Service General Computer Based Training for CS 3000 Operations Specification

SGS 43S99X07-31E

Release 2.0

Overview

The objective of the computer-based training (CBT) environment is to acquaint the user with the system layout, operation screens, and terminology of the CENTUM CS 3000 system.

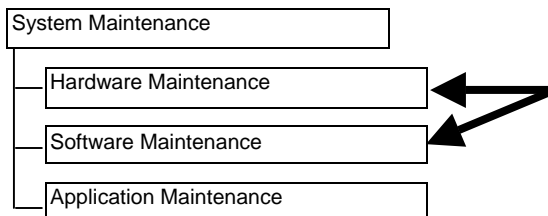
This training is not intended to replace the traditional training environment. It is intended to help the student gain introductory CENTUM CS 3000 product knowledge prior to instructor-led training or completing on-the-job training.

The CBT has a printable guidebook with on-going testing. The user follows the guidebook and answers the questions as directed. There is on-line testing associated with each chapter with automatic scoring. A review section is at the end to reinforce the newly learned information.

This CBT also allows the user to easily review any portion of the training without re-answering questions.

Positioning

CBT provides for basic understanding of system hardware and software.



Functional Overview

The CBT covers the same basic information as is covered in the standard (generic) instructor led class. Since the method of instruction delivery is different than an instructor led course then the flow of the course is slightly different.

As the students go through the CBT they follow a guidebook, which not only leads them but also asks them to answer questions about the screens, as they are viewed.

On-line questions will also occur during the chapters to test the student's knowledge. At the end of the chapter the student can check his total score for questions answered during the testing.

The CBT is broken into the following categories:

- System configuration: This covers hardware terminology and the CENTUM CS 3000 system layout.
- Operation screens: This section covers all operation screen functions and is divided into the following categories:
 - System Message Window: This covers the functionality of the icons in the message area. All display icons, when selected, show the appropriate system window. All of the icons on that window are also interactive with "popup" windows that give the user information about the selected icon.
 - Operation Windows: All of the users created operation window types are covered: Control windows, Overview windows, Tuning windows, Trend windows, Process Alarm windows and Operator Guide windows. Each of these windows is accompanied with the appropriate "pop-up" window for more detail of user selected screen icons.
 - Instrument Faceplate: This section covers defining items found on the faceplate. Also covered are interactive screens where the users actually change instrument modes, changes the setpoint of a feedback control instrument and interactively opens and closes a switch type instrument.
 - Operator Keyboard: This section shows the relationship between the keyboard and the operation windows. When the user selects a keyboard icon he will get either a "pop-up" window describing the function of the key or be taken to the appropriate window. From the window he can return to the interactive keyboard.
- System Status Display: This section covers system alarms and their associated help messages. The user also calls up the field control station status displays where he will select icons and buttons for more information.
- Process Report: This section covers the displaying of the process report window and the use of filtering function.

- **Historical Report:** This covers the access of historic events and the use of filtering function to display the desired information.
- **Sequence Control:** This section covers the three ways sequence control can be accomplished in the CS 1000/3000 systems.
- **Sequence Table:** This interactively defines the data displayed as part of the sequence table through “pop-up” windows. The user is also taken through a “running process”. The CBT tells the user what the table is doing as it waits for specific inputs (conditions) and what occurs when its outputs (actions) take place.
- **SFC and SEBOL:** This shows the user how to call up call up a SFC block and open the process steps created inside of it. When the process step is opened a SEBOL program is revealed with a window describing, to the user, what the lines of SEBOL text are doing.
- **Logic Chart:** The user, in this section, is shown how to call up a logic chart and then view it as it interactively describes how logic is blocking or passing interlock data through. After completing these tasks, the user is then required to go through a review section on the guidebook to re-enforce this new knowledge.

FEATURES

- Self-paced PC training.
- Cost-effective training done at the users' location and on the users' time schedule.
- Auto assistance via help menus and coaching functions.
- Frequent tests that reinforce training material.
- Accumulated test scoring to determine the degree of student understanding.
- Email help and screen captures are available to send for additional assistance.

WHO SHOULD USE

The CS 1000/3000 CBT is designed for operations personnel.

REQUIRED TIME

The CBT is modular in nature. Multiple students may log on at different times. It is not necessary to complete the entire course in one setting. This CBT course is designed as a 4 – 6 hours.

TRAINING OBJECTIVES

- Able to understand the function of the individual system components.
- Learn how to use the Operation Screens including System Message, Operation Windows and the Instrument Faceplates.
- Understand the use and functions of the Operator Keyboard.

Operating Environment

The CBT software will run with MS Windows 95 (Service Pack 2), Windows 98, Windows NT 4.0, Windows ME, Windows 2000 (Service Pack 4) and Windows XP (Service Pack 2). Adobe Acrobat 6.0 or later must be on the PC for the guidebook.

Screen setup: The CBT was designed around the screen setup of 1024x768 and at least 16-bit color.

Minimum System Hardware requirements:

- Printer (HP LaserJet or equivalent)
- 32 MB RAM.
- 70 MB HDD free space.
- CD-ROM drive, double speed or faster.
- Video card at highest resolution (at least 16-bit color) and 1024x768 screen size.

Student requirements:

The student must be familiar with the basic operations of a PC using windows and a mouse. Some knowledge of control system configuration is helpful but not required.

Ordering Instructions

Please contact your local Service Sales Representative for more information.

CBT-CS 3000 - HIS

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