

Equipment Integration with SEMI SECS/GEM

- In-depth technical understanding of the SEMI standards – SECS-I, HSMS, SECS-II & GEM
- Equipment characterization with SECS simulation tool
- Developing a host using SECS/GEM package

Course ID

- VST002

Duration

- 6 sessions, 3 hours per session

Who Should Attend

- Software engineers that develop host or station controller software.
- Anyone who is involved with supporting, troubleshooting or maintaining the SECS/GEM communications interface between a factory host and equipment.

Prerequisites

- Some basic knowledge in equipment integration for semiconductor
- Programming knowledge in VB/C++

Course Materials

- VFC GEM host development software: ActiveGbox_ex (30-days evaluation copy)
- VFC SECS-II simulator (30-days evaluation copy)
- VFC GEM equipment simulator (30-days evaluation copy)
- Sample GEM host code

Hands-on-Workshop System Requirements

- Windows 2000, XP Pro
- Microsoft Visual Studio 6.0 or equivalent

Course Primary Outline

- Session 1
 - Overview of Equipment Integration
 - SEMI SECS-I (E-4)
 - SEMI HSMS (E-37)
- Session 2
 - SEMI SECS-II (E-5)
 - Message Data Items & structures
 - Message Notations
 - Message Streams
 - SECS-II Hands-on-Workshop
 - Data items & message creations
 - Sending & receiving messages
- Session 3 - 6
 - SEMI GEM (E-30)
 - State Models
 - Establish Communications
 - Control Capabilities
 - Data Collection
 - Alarm Management
 - Equipment Constants
 - Remote Control
 - Process Program Management
 - Material Movement
 - Error Messages
 - Terminal Services
 - Clock
 - Spooling
 - GEM Data Items
 - GEM Compliance
 - GEM Hands-on-Workshop
 - GEM scenarios implementation
 - Develop host

* Each session will have Q&A and follow-up modules.

For more information and to register for the next available sessions of this course, please visit our website:

www.values1.com

