

# SIEMENS

## Siemens Mechatronic Systems Certification Program Instructor Certification Program Schedule – System Approach Paradigm Week

### Day One

9:00 Introduction, Ice Breaker, Welcome

- Faculty and Staff
- ICP Certification Program Participants

10:00 Comments from Host

10:30 Break

10:45 Facility Tour

12:00 Lunch

13:00 Siemens Mechatronic Systems Certification Program (SMSCP)

- Levels 1, 2, 3
- Job Profile of Levels 1 & 2
- Relationship of Objectives to Job Profile
- The Role of the ICP in the Certification Program
- The Objectives of the ICP
- Role of Course Support Materials
- Feedback / Summary

14:15 Break

14:30 System Approach: Overview

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## Day Two

9:00 Mechatronic Systems Teaching

- Valve Assembly Line/Gear Sorting Line/Bottle Filling Line
- Modules of Mechatronic Systems
- System Approach Presentation
- Traditional Approach vs. System Approach

10:30 Break

10:45 Application of System Approach in Mechatronic Systems Education:  
Elements of the Course

- System Approach Module Breakdown Diagram
- Basic components of Mechatronic systems
- Description of the complete system function, flow of energy, information and/or mass
- Exercise (Based on TIA system, Modules 1-4)
- Presentations
- Discussion

12:15 Lunch

13:15 Example of a “Real” Situation

- Valve Assembly Line/Gear Sorting Line/Bottle Filling Line
- Presentation and discussion
- Test questions and System Approach
- Feedback

14:15 Break

14:30 Overview of Simulated Systems

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## Day Three

9:00 Diagnostic Kit Training—Overview of Simulated Systems

10:30 Break

12:30 Lunch

13:30 VCAT Training and Electronic Resource Management Seminar

15:15 Break

## Day Four

09:00 System Approach Teaching Example

- Discussion of VCAT Materials
- Connection to SMSCP concept
- Connection to System Approach and Job Profile
- Main elements in the field

10:30 Break

10:45 System Approach Teaching Example 2

12:30 Lunch

13:30 Begin Preparing Sample Lesson; Present Sample Lesson Ideas

15:45 Overview of Simulated Systems II

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## Day Five

9:00 Finish Sample Lesson Preparation

10:00 System Approach Sample Lesson Unit Presentation: Group 1

11:00 Break

11:30 System Approach Sample Lesson Unit Presentation: Group 2

12:30 Lunch

13:30 System Approach Sample Lesson Unit Presentation: Group 3

14:30 Break

14:45 System Approach Sample Lesson Unit Presentation: Group 4

15:45 Discussion and Feedback on Presentations + Wrap-up