

# National Training School

## Video System Technologies

### Course Syllabus

April 2007

#### A. Course Description

A sixteen hour classroom workshop that teaches both theory and the practical application of Video Surveillance Systems. Exercises culminate in an actual system design based on a given customer specification and building plan.

#### B. Overall Outline, Objectives, & Hours

The Video System Technologies Course has a total of (16) contact hours over a minimum of (2) days. Subject areas will be covered as follows:

Outline	16 Hrs.	Learning Objectives
<b>0. Introduction</b>	<b>.5 hrs</b>	Objective(s)
1. Overview	.5 hrs	<ul style="list-style-type: none"> <li>❑ The trainee will be able to describe the outcomes of this EAC entry-level program.</li> </ul>
2. Imaging Hardware	2.0 hrs	<ul style="list-style-type: none"> <li>❑ The trainee will be able to describe the various methods used to capture video images.</li> </ul>
3. Transmission Media	1.0 hrs	<ul style="list-style-type: none"> <li>❑ The trainee will be able to describe the various methods used to transmit video images.</li> </ul>
4. Power	.75 hrs	<ul style="list-style-type: none"> <li>❑ The trainee will be able to describe the various power considerations of a video system.</li> </ul>
5. Auxiliary Equipment	.75 hrs	<ul style="list-style-type: none"> <li>❑ The trainee will be able to describe the applicable auxiliary equipment used in a video system.</li> </ul>
6. Video Processing	.75 hrs	<ul style="list-style-type: none"> <li>❑ The trainee will be able to describe the processing and control of video images.</li> </ul>
7. Monitors	.75 hrs	<ul style="list-style-type: none"> <li>❑ The trainee will be able to describe the monitors used in a video system</li> </ul>
12a. Exercise #1 – Preparation	.50 hrs	<ul style="list-style-type: none"> <li>❑ The exercise will outline issues the trainee must consider in selecting camera placement per a customer specification in a convenience store environment.</li> </ul>
	<b>DAY TWO</b>	

12b. Exercise #1 – Review / Completion	.75 hrs	<ul style="list-style-type: none"> <li>❑ The exercise will outline issues the trainee must consider in selecting camera placement per a customer specification in a convenience store environment.</li> </ul>
8. Recording	1.0 hrs	<ul style="list-style-type: none"> <li>❑ The trainee will be able to describe the various considerations when recording video images.</li> </ul>
9. System Design	1.0 hrs	<ul style="list-style-type: none"> <li>❑ The trainee will be able to describe the various customer, legal, and code issues when designing a video system.</li> </ul>
10. Commissioning	1.0 hrs	<ul style="list-style-type: none"> <li>❑ The trainee will be able to describe the proper methods for testing and commissioning a video system</li> </ul>
11. Troubleshooting	.75 hrs	<ul style="list-style-type: none"> <li>❑ The trainee will be able to describe the basic steps for troubleshooting common video system faults.</li> </ul>
13. Exercise #2	1.5 hrs	<ul style="list-style-type: none"> <li>❑ The exercise will outline issues the trainee must consider in selecting camera placement per a customer specification in an office environment.</li> </ul>
Questions and Answers, and Final Exam	2.0 hrs	<ul style="list-style-type: none"> <li>❑ The trainee will be able to satisfactorily complete a given knowledge examination based on the listed objectives of this portion of the program.</li> </ul>

### C. Guidelines

The course shall be present in accordance with the most recently adopted NTS Administrative & Operational Guidelines. Students with special needs shall be accommodated as required by law and specified in the National Training School Policy Concerning Students with Special Learning/Examination Needs.

### D. Method of Presentation

#### 1. Lecture

The instructors shall present the material following the instructor guide and the slide presentation combined with question and answers throughout the course to verify and reinforce comprehension and relate the material to the students particular needs.

#### 2. Audio Visual Aids

- Slide presentation (slide projector or computer driven monitors).
- Reference book.
- Exercise Workbook

### D. Method of Evaluation

1. Written examination.
2. Successful completion of Workshop Exercises.

### **E. Qualification of Instructors**

Our program succeeds through individual instruction in the art of teaching by experienced instructors, essentially a train the trainer concept. The course instructors shall include at least one NTS Certified Instructor or a Senior Instructor, and an instructor appointed by the NTS director of education and known by the director to be both knowledgeable of the course material and able to present it in a professional manner.

Note: The times given are approximate. The instructor must allow for a 10 minute break approximately every hour. Classes can be scheduled for longer contact hours but not for less than 16 contact hours.