

PROJECTX N° 016

“CCTV SECURITY CAMERA SYSTEM”

PRESENTATION



Promoting school:

Konya (Meram) Vocational and Technical Anatolian High School
Konya, Turkey



A. GENERAL DESCRIPTION

Title of the ProjectX

CCTV SECURITY CAMERA SYSTEM

Core area

GENERAL / KNOWLEDGE **ELECTRONICS**

PARTICULAR / ACTIVITY: **DESIGN, ASSEMBLY, MEASUREMENT, INSTALLING**

Promoting school

KONYA VOCATIONAL AND TECHNICAL ANATOLIAN HIGH SCHOOL

Schools participants in the revision of the ProjectX

VALDORIO

Reference to ECVET Credit System and EQF / NQF

ECVET	EQF	REFERENCE TO NATIONAL QUALIFICATIONS (NQF)						
		Spain	Finland	Romania	Portugal	UK	Turkey	France
2	3	3	3	3	3	2	3	3

Learning Outcomes achieved (to be developed in the future related with ECVET credit system)

1. Understand all components of CCTV security camera systems
2. Be able to choose proper system components according to the environment
3. Be able to install CCTV system

Time that is necessary to do the ProjectX (in hours)

Theory: 8 hours
Practice: 30 hours

Link to real companies in your region (it is just informative)

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|--------------------------------------|------------|
| 1. NAME:TEZELLER ELECTRONICS LTD.ŞTI | WORKPLACE: |
| 2. NAME:KARACAN ELECTRONICS | WORKPLACE: |



B. THEORY

Objectives of the theoretical Knowledge

1. The criteria of designing camera security system
2. CCTV security cameras
3. Control equipment
4. DVR

List of activities

1. Get Knowledge about cameras, DVR, control equipment
2. Choosing camera according to the environment
3. Evaluation of theoretical Knowledge

C. PRACTICE

Brief description of the Practice

The objective is to install simple CCTV camera system by connecting cameras to DVR and setting up DVR

Steps or activities to be performed by the student

- | | |
|---------|---|
| First: | Selection of system components and equipment |
| Second: | Placing cameras on the proper locations |
| Third: | Implementing fine tuning operations of cameras according to the direction and angle |
| Fourth: | Connecting cameras to DVR with CCTV cable |
| Fifth: | Implementing the adjustment of DVR recording set up menu |



D. DETAILED DESCRIPTION OF LEARNING OUTCOMES.

Learning Outcome:	Understand all components of CCTV security camera systems
Knowledge	
- The student knows components of CCTV security camera systems and their functions.	
Skills	
- The student is able to distinguish components	
Competences	
- The student is responsible to know components of CCTV security camera systems and their functions	

Learning Outcome:	Be able to choose proper system components according to the environment
Knowledge	
- The student knows to design project according to the area	
- The student knows to choose components according to the environment	
Skills	
- The students be able to consider environment during designing project and selecting components	
Competences	
- The student is responsible to design CCTV project	
- The student is responsible to choose components according to the project	

Learning Outcome:	Be able to install CCTV system
Knowledge	
- The student knows installation equipment and how to use them	
Skills	
- The student is able to focus camera and fine tuning	
- The student is able to put on connector	
- The student is able to use test monitor	
- The student is able to wiring	
- The student is able to set up DVR	
Competences	
- The student is responsible to use installation equipment	
- The student is responsible install CCTV system	
- The student is responsible to protect hand tool and measurement equipment	
- The student is responsible team working	

