

PROJECTX N° 018

“INSTALLATION HOME SATELLITE SYSTEM”

PRESENTATION



Promoting school:

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



A. GENERAL DESCRIPTION

Title of the ProjectX

INSTALLING HOME SATELLITE SYSTEM

Core area

GENERAL / KNOWLEDGE **ELECTRONICS**

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

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 Clark Orbit
2. Understand home satellite system's components
3. Understand installation equipment for home satellite system
4. Be able to focus the dish to satellite
5. Be able to set up satellite receiver

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)

- | | |
|--------------------------------------|------------|
| 1. NAME:Tezeller ElectronicsLtd.Şti. | WORKPLACE: |
| 2. NAME:Alfatek Electronics | WORKPLACE: |



B. THEORY

Objectives of the theoretical Knowledge

1. The situation of the satellites on the clark orbit
2. Home satellite system's components (dish, LNB, receiver, connector and coaxial cable)
3. Installation equipment for home satellite system
4. Measurement instruments (satellite finder or strength field meter) to focus the dish

List of activities

1. Draw the block diagrams of home satellite systems' components
2. Explain how the system works
3. Evaluation of theoretical Knowledge

C. PRACTICE

Brief description of the Practice

According to installation place he has to select suitable bracket and system components and equipment, know how to focus dish to target satellite using sat finder.

Steps or activities to be performed by the student

- | | |
|---------|---|
| First: | Selection of system components and equipment |
| Second: | Combining satellite dish parts |
| Third: | Fix the dish bracket to ground, wall or balcony |
| Fourth: | Connect lnb to sat finder and focus the dish to right satellite |
| Fifth: | Set coaxial cable to satellite receiver |
| Sixth: | Adjust receiver set up menu |



D. DETAILED DESCRIPTION OF LEARNING OUTCOMES.

Learning Outcome:	Understand Clark Orbit
Knowledge	
- The student knows Clark Orbit	
Skills	
- The student is able to know common satellites and their position on the Clark Orbit	
Competences	
- The student is responsible to know location of satellites and distance between Clark Orbit and Ground	

Learning Outcome:	Understand home satellite system's components
Knowledge	
- The student knows which components are needed to install home satellite system	
Skills	
- The student is able to combine dish with its parts	
Competences	
- The student is responsible to know functions of components and to connect them each of other	

Learning Outcome:	Understand installation equipment for home satellite system
Knowledge	
- The student knows equipment and selects which will be needed to install home satellite system	
Skills	
- The student is able to use equipment and to know the function of them	
Competences	
- The student is responsible to know functions of equipment and to install system using them	

Learning Outcome:	Be able to focus the dish to satellite
Knowledge	
- The student knows the location of satellite and which kind of measurement equipment will be used to direct dish to the satellite	
Skills	
- The student is able to use sat finder	
Competences	
- The student is responsible to know satellite location on the Clark Orbit	
- The student is responsible to measure signal level using sat finder and fix the dish	



Learning Outcome:	Be able to set up satellite receiver
Knowledge	
- The students know information about satellite receiver	
Skills	
- The student is able to connect receiver to TV	
- The students use receiver setup menu and search channels	
Competences	
- The student is responsible to know the functions of menu	
- The students is responsible to connect receiver with both TV and Inb	

