Health Care Technical Service
P.O. Box 795 Moshi, Tel: (027) 2753750, Fax: (027) 2752364
e-mail: hcts@elct.org, web: www.hcts.org

In-house teaching- handout

Problems in the hospitals
In the workshop (tools etc.)/ with machines/ with building wiring/ etc…

_____
_____
_____
_____

How to solve

_____
_____
_____
_____

Safety at work

- What you don't understand please don't work with
- Always plug off the equipment before opening it !
- Wait some minutes or discharge capacitors
- Don't bridge fuses
- Always connect Earth to your installation or equipment
- Install circuit breakers
- Beware of x-rays
- Use power protection equipment

How to treat hospital equipment

- Protect it from dust (cover it)
- Clean it only with little water without chemicals
- Don't throw
- Don't beat
- Plug off if not used
- Store it carefully
- When transporting protect it carefully of dust and shocks

Manuals

User manual: Written for users, explains how to operate the equipment
Service manual: Further information for technicians, with troubleshooting, detailed technical drawings, plans of circuit board, more detailed information

Who is in charge to store Manuals? _____

Where are manuals stored? _____
Who is in charge to order missing manuals? _____
When new equipment is delivered without proper manuals, please immediately order the missing manuals!

Repair of medical equipment

Steps of repairment:
1. _____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____

Who is in charge for what kind of tasks:
_____
_____
_____
_____
_____
_____
_____
_____
_____

Please: everyone only works within his limits of knowledge

In case that further help is needed:
Contact Zonal Workshop:
_____
_____

Contact HCTS:
P.O. Box 795 Moshi, Tel: (027) 2753750, Fax: (027) 2752364, e-mail: hcts@elct.org

Importance of maintenance

Equipment is:
Longer lasting
Less expensive
Less time without working
It saves you a lot of time and money, and the donors will thankfully notice it

Importance of power protection equipment

The **cut off switch** or **voltage stabilizer protects** your medical equipment of dangerous changes in the power supply like:
- **spikes** and **surges** (very short and very high voltage of thousands of amps and volts)
- **over voltage** (longer lasting high level of voltage)
- brown out/ **under voltage** (longer lasting low level of voltage).

When changes like this occur the cut off switch **cuts off** the connection between the protected medical equipment and the dangerous power supply. When the power supply is in the normal level, the cut off switch reconnects the medical equipment and the power supply after a short **delay**.
The voltage stabilizer first tries to **regulate** the voltage to a normal level and when this is not possible, **cuts off** the connection between the protected medical equipment and the hazardous power supply. When the power supply is in the normal level, the SVS reconnects the medical equipment and the power supply after a short delay
When the power protection equipment gets broken: please read the short manual first, if this doesn't help: **please contact HCTS**

How to get spare parts

Where to get it (zonal workshop, shops in town):

_____

_____

Who is in charge to organize spare parts

_____

_____

For any further questions or help please contact

HCTS, P.O. Box 795 Moshi, Tel: (027) 275 3750, Fax: (027) 2752364, e-mail: hcts@elct.org

Or Sollatek distributor:
Swift Holdings, P.O. Box 2082 Arusha, Tel: 250 4147/ 254 4378, mobile: 0744 285 045
e-mail: solar@cybernet.co.tz