

Continuous Training: Necessities, Effects, and Possibilities

Univ. prof., dr. Victor Sontea

Chief of the Department, Technical University of Moldova

President of Moldovan Biomedical Engineering Society

sontea@mail.utm.md

HTM – Maintenance Policy

General Factors in Maintenance

- Defect causes and accidents with medical equipment
 - 10% Technical defects
 - 30% Inadequate strategy of maintenance
 - 60% User mistakes
 - 80/20 (70/30) The Rule:
 - A correct implementation of health technology management allows 80% of problems to be solved within 20% of resources.
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Necessity of Continuous Training

- ❑ Equipment is safe for patient as well as for operator;
 - ❑ Equipment efficiency will take longer;
 - ❑ Maximum of benefits for any financial investment;
 - ❑ That equipment which is protected and maintained helps medical staff to operate quickly and offer a better medical service.
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Beneficiaries' of the Training

- ❑ Users of medical equipment;
 - ❑ Engineers, Technicians;
 - ❑ Administrative Staff.
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User's Responsibilities

- ❑ Is responsible for equipment status, accessories and consumables;
 - ❑ He/she is responsible for ensuring that all equipment works properly and knows all operation techniques;
 - ❑ He/she is responsible for correct use of consumables in a wasteful way;
 - ❑ He/she is responsible for ensuring that he/she operates equipment safely and knows procedures for proper protection.
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User's Responsibilities

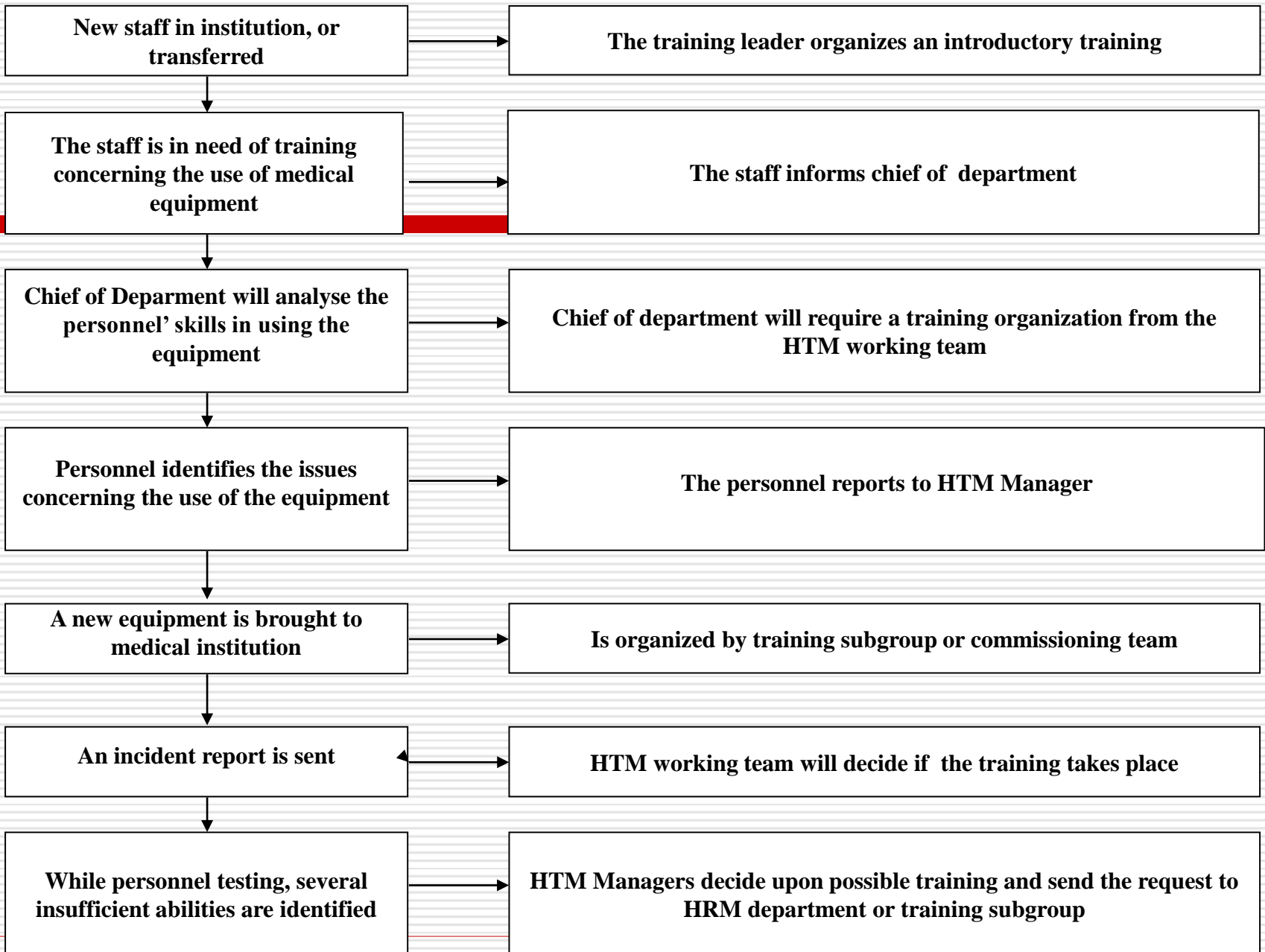
- ❑ He/she is responsible of daily maintenance and cleaning of equipment which uses recommended chemical powder;
 - ❑ He/she is responsible for monitoring equipment that works appropriately, offers expecting results and reports each failure to HTM team through chief of department;
 - ❑ Assures that is aware of all the tasks, in case a training is required he writes a solicitation to chief of department;
 - ❑ He/she is responsible for obeying the local regulation of safety.
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Trainings for Operators of Equipment Should Include:

- Practice of using the equipment;
 - How to operate equipment;
 - Correct apply of the equipment;
 - Safety procedures;
 - Administration of stocks;
 - Planning preventive maintenance for users.
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Training Types

- ❑ Introductory Training – when the staff is in post, is transferred to another department, institution or location with another responsibilities;
 - ❑ Instantaneous Training - when new equipment is brought;
 - ❑ Refreshing training – when it's necessary to freshen up the abilities.
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Strategies for Advancing Skills in Using Equipment

- ❑ Sending personnel to companies where the equipment is manufactured;
 - ❑ Inviting the engineers from manufacturing companies to local and regional institutions for training and consults;
 - ❑ Sending personnel to institutions where such training occurred and they have necessary knowledge for organizing the training by themselves;
 - ❑ During the equipment acquisition, ensure that you include data for training;
 - ❑ Using professional meetings;
 - ❑ Using academic courses of different levels;
 - ❑ Dissemination of basic information for introductory training to use of the equipment.
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Ventilator for newborns

Leoni 2

Quick guide



Alarmer. Cauze. Remedii.

Alarmerle pot fi:

<u>Mesajul de alarmă</u>	<u>Cauza posibilă</u>	<u>Remedii posibile</u>
OXYGEN VALUE DIVERGENCE <i>(Divergențe cu valoare oxigenului)</i>	<ul style="list-style-type: none">• Senzor de oxigen O₂ defectat	<ul style="list-style-type: none">• Adresașivă la serviciu tehnic
APNEA <i>(Cmripa respiratorie)</i>	<ul style="list-style-type: none">• <u>Pacientul nu respiră spontan un timp îndelungat</u>• Tubul de respirație este	<ul style="list-style-type: none">• Verificați dacă nu sunt prezente îndoiri ale tubului de ventilație

Îngrijirea, întreținerea și curățarea

– Pericol de electrocutare!!!

Înainte de a curăța sau a dezinfecta dispozitivul, deconectați-l de la sursa de alimentare.

– Pericol de defectare a dispozitivului!!!

- Evitați pătrunderea apei sau a detergenților în interiorul dispozitivului.
- Nu sterilizați dispozitivul.
- Folosiți numai agenți de curățare speciali

- Pericol de infecție!!!

- Pregătiți și dezinfectați dispozitivul și sistemul de respirație după fiecare utilizare pe pacient
- Nu folosiți de mai multe ori produsele de o singură folosință

Toate dispozitivele medicale contaminate cu agenți patogeni pot fi sursă de infecții umane. Reutilizarea și manipularea unor astfel de dispozitive medicale necesită o pregătire prealabilă adecvată. Măsurile descrise mai jos sunt adecvate pentru minimizarea riscului de infecție cu cât mai mult posibil.

- 1). Dezasamblarea (se referă la componentele lui)
- 2). Prelucrarea preventivă
- 3). Curățarea preventivă
- 4). Curățarea propriu-zisă
- 5). Spălarea și uscarea
- 6). Dezinfectarea/sterilizarea. Verificați ca toate componentele să fie curate și nedeteriorate
- 7). Testarea funcționării aparatului
- 8). Punerea în funcțiune

Training Schedule for Users

- **Healthcare Technology Management**
 - General Principles
 - Organizational structure of HTM with attribution of commitments and responsibilities of each level
 - HTM efficiency assessment
 - Documenting and reporting
 - **Electrical security of medical device, ensuring patient's and healthcare worker safety.**
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Training Schedule for Users

- ❑ Defibrillator **DG 4000**;
 - ❑ Pulse oximeter **TruSat**;
 - ❑ Practical Session: the work with defibrillator and pulse oximeter;
 - ❑ Final evaluation, course evaluation.
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Results of Participants Evaluation at the User Training

Nr.	Compartment	Evaluation Results%	
		Pre-assessment	Final evaluation
1	Healthcare Technology Management	46,7	79,17
2	Electrosecurity of medical device	29,63	67,36
3	Aspirator Primus Cell	34,1	66,41
4	Pulse oximeter TruSat	58,67	85
5	Cardiac Monitor DASH 3000/4000/5000	70	81,25
6	Defribillator Defigard 4000	41,6	89,84
7	Total	45,7	77,6

Participants Vision upon the Training

□ **How do you appreciate the training for your activity?**

1. Very well- 75%
2. Good - 25

How do you appreciate the level of presented information?

1. Very well - 90%
2. Good - 10%

How do you appreciate the necessity of implementing User Guide?

1. Very necessary- 16
2. Necessary - 4

How do you appreciate the usefulness of the training?

1. Very good- 17
2. Good - 3

How do you appreciate the professional competence of the presentations?

1. Very high- 17
 2. High - 3
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Results

- ❑ Healthcare institutions can offer a complete service, which is not hindered by non-functional technologies;
 - ❑ The equipment is used properly, maintained, and insured;
 - ❑ The personnel uses the equipment by following written procedures and good practice;
 - ❑ Healthcare institutions can be provided with the following trustworthy information about:
 - Functional status of the equipment;
 - Maintenance performance;
 - Practice and abilities of the personnel involved in using the equipment.
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Thank you for Attention 😊
