



The 7th International Scientific Conference
**“DEFENSE RESOURCES MANAGEMENT
IN THE 21st CENTURY”**
Bra ov, November 15th 2012



**THE ANNUAL PRODUCTION PROGRAM OF THE
MAINTENANCE CENTER FROM LAND FORCES**

LTC ENG Nicolaie BUCICA

102 MAINTENANCE CENTER “BUCOV”

Abstract

This paper presents the annual production program from maintenance center, its structure the preparation, approval and data reporting stages .

1. Introduction

The Maintenance Center (CM) is a non-deployable structure subordinated to the Land Forces/Logistic Base that is assuring planning, management, control and execution maintenance activities of military equipment, in time of peace and in situations of crisis and war.

For production activity that has provided production structures type sections and in subordination Military Equipment Maintenance Sections (MEMS). Military Equipment Maintenance Sections are placed in area of responsibility of big units and units whom they support.

Document that plans, executes and evaluates production activities of productive units of MoD is “The annual production program” (APP). It is elaborate by the productive units, except MEMS subordinated maintenance centers. That is based on hierarchical tasks received from the upper echelons, according to the skills, capacity of production and allocation of funds.

The skills of maintenance center are given by:

- the infrastructure;
- the machineries and the existing equipments ,
- the technical and engineering personnel, training and expertise of them;
- the existence of the technological documentation;
- the permits obtained from the competent structures for different activities;
- the attestation of capability for the work that is performed;
- the experience from the past.

2. Preparation and Approval

APP is prepared and sent for approval and advice until November 15 to major program director or to secondary authorizing officer ,following the advise and approve within 30 days of receipt of the approved budget but no later than February 15 .

THE ANNUAL PRODUCTION PROGRAM OF THE MAINTENANCE CENTER FROM LAND FORCES

If project budget or PPA is not approved project until 31 December, productive sections and MEMS runs their activities based on the monthly extract of APP project, made by maintenance centers based on the task gave by upper echelon.

For the preparation program project the planning office and production tracking is doing a rigorous analysis, this is based on the following:

- ❖ the organizational structure (number and specialties of the production staff) of the productive sections and workshops;
- ❖ the competence of these structures about production activities;
- ❖ tasks received from the upper echelons;
- ❖ the need for cooperation with other productive units;
- ❖ uniform distribution of the productive tasks;
- ❖ assimilation in repairing / manufacturing of the new military equipment;
- ❖ running dismantling of military equipment for free storage space parts available in their storages;
- ❖ previous experience.

Office planning proposals are reviewed and approved by the commander and chief engineer it is prepared the final product program project.

3. The annual production program elements

The annual production program contains the followings:

the advisal and approval tab;

- the annual production program form;
- the economic-financial indicators and usage of the fund of time:
 - goods production value-value of the entire production executed, delivered or to be delivered on a specified period of time;
 - total cost for manufacturing production of goods;
 - the average number of personnel-is the ratio between the amount of total daily number of staff directly and indirectly productive and the number of days in the period considered;
 - workforce productivity that is calculated using “goods production”-that is calculated by dividing the indicator "value of the goods" to the average number of personnel from the unit;
 - the indicator of utilization to production capacity for: repair and revision, fabrication, recondition, assimilation, technical assistance and other activities- represents the percentage of the total time used for executing various types of activities.
- calculation of the fund production time;
- calculation of average hourly wage;
- the table with the structure of indirect cost and generated by administration, calculation of unique quota for unit.

The fund production time is calculated taking into account:

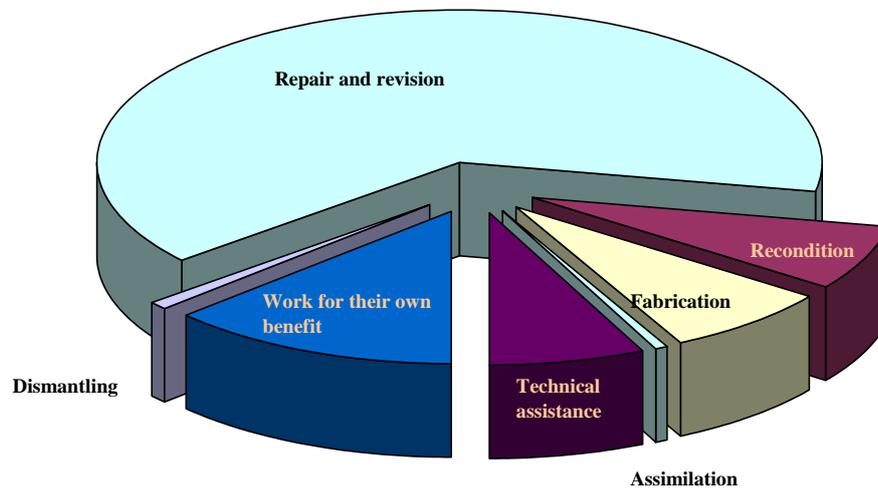
- maintenance center and production departments structure ;
- total number of productive staff and their specialization;
- unproductive activities (holidays, military-specific activities, study leaves, sick leave, permissions).

THE ANNUAL PRODUCTION PROGRAM OF THE MAINTENANCE CENTER FROM LAND FORCES

It will result the production capacity available at that time, structured into sections or chapters of plan that present below:

The production structure	The production capacity (hours)
1st Section	
2nd Section	
•	
•	
•	
nth Section	
TOTAL MAINTENANCE CENTER	

The production capacity planned for....



We can observe that the largest share in productive activity have the activities for repair military equipment.

Production fund for maintenance differ between centers because their organizational structure has different features and the number of directly productive staff is not the same.

The annual production program is structured into the following chapters:

Chapter I - repair and revision/overhaul of military equipments;

Chapter II - fabrication and modernization of military equipment;

Chapter III - Other works which include:

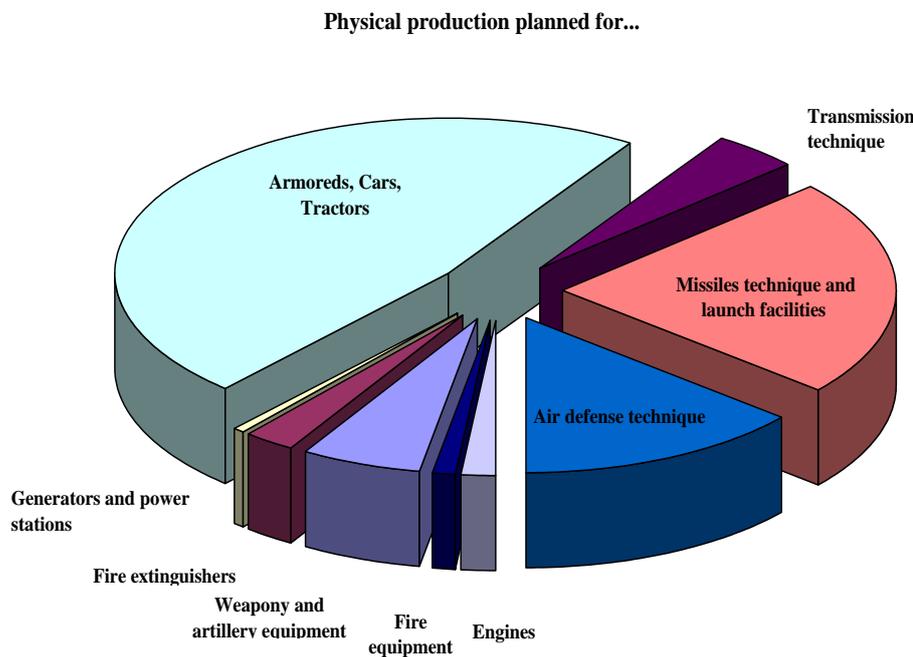
- recondition of parts and subassemblies;
- fabrication of parts and subassemblies;
- assimilation of new products;

THE ANNUAL PRODUCTION PROGRAM OF THE MAINTENANCE CENTER FROM LAND FORCES

- technical assistance and periodic technical inspections;
- endowment on their own with production equipment;
- dismantling, demilitarizing;
- work for their own benefit;
- maintenance or repair equipment for production;
- provide of services for civilian persons/institutions;
- cooperation with other productive units;

The productive units which are providing works for the benefits of other directors of major programs are structuring the annual production program for each director.

The production program graphic may look like this:



4. The evaluation and monitoring of the program

Evaluation and monitoring of PPA execution is done as follows:

- Weekly of the MEMS and the productive sections and the workshops of the structure.
- Monthly, until ..., the center commanders are analyzing the program stage for the previous month based on the report about the accomplished of the production program per month ... received from MEMS, also the report of the production sections from subordinated structure.
- Quarterly, until of the next month, MC are sending the state of annual production program accomplishment per quarter..and cumulated from the beginning of the year . The situation of accomplished of the main indicators economics and financials per quarter... and cumulated from the

THE ANNUAL PRODUCTION PROGRAM OF THE MAINTENANCE CENTER FROM LAND FORCES

beginning of the year. The explanatory report on the causes for failure of APP tasks.

Based on periodic reports Land Forces can compare maintenance centers about labor productivity, efficiency and effectiveness of production activity.

5. Conclusion

Knowing and analyzing very well:

- ❖ the production tasks received from the upper echelons;
- ❖ the production capacity of unit;
- ❖ the skills of unit;
- ❖ the necessary of funds, it is prepared a very realistic annual production program that can be put into practice in a very good, effectiveness and efficiency way.

If we compare the activity of a civilian factory and maintenance centers we will observe:

- ❖ in the civilian factory- the productive activity always takes place with minimum cost and maximum efficiency;
- ❖ in the maintenance centers- the productive activity is carried out to maintain functionally complex and important equipments. This activity, if is possible, takes place following the effectiveness and the efficiency and.

References:

[1] S.M.G/S-20 /2010: Order for organization and functioning of the maintenance structures from Romanian Army

[2] M9/2011: Order for approving the Guidelines on the management of production activities in units from the Ministry of National Defense

[3] L11/2011: Rule for maintenance of equipment in Romania Army