

## MANAGEMENT LEVEL COURSES

<b>M-1</b>	<b>TESTING &amp; EVALUATION OF FARM MACHINERY</b>	
Duration: 1 weeks	Effective working days : 5	Total Unit : 10
<b>Beneficiary :-</b>	Technical Personel/Officers from Manufacturers of Agricultural Machinery, Agro Industries, SAUs, Universities, State Agri. Deptt. ICAR, etc	

- General information regarding farm machinery testing institutes in India and Abroad,
- Need and objectives of testing of Agril. Machines, different types of tests and introduction to BIS test codes.
- Test procedure of tillage implements viz. Plough, Harrow, Cultivators, Lab and field parameters of tillage machines. Practical demonstration on field testing of tillage implements & recording observations such as draft, slippage, fuel consumption, field efficiency etc.
- Introduction to testing of plant protection equipments. Study of different types of Sprayers, dusters, their components. Dismantling & assembling of Knapsack Sprayers. Study of test codes for sprayers & dusters, different parameters & test procedures of Sprayers & dusters. Practical demonstration on Sprayer and duster test.
- Introduction to testing of Combine harvester & Straw reaper. Study of test codes and different field parameters of Combine harvesters & Straw reapers. Practical demonstration of brake test, turning radius, other lab and field test of Combine harvesters and straw reapers.
- Study of test codes, test rig and parameters regarding C.F. Pump testing. Practical demonstration of C.F. Pump test.
- Introduction to the testing of Sowing machines, Study of test codes and test procedure of seed drill. Evaluation of different lab and field parameters. Laboratory calibration and analysis of Seed cum fertilizer drill.

<b>M-5</b>	<b>ENTREPRENEURSHIP DEVELOPMENT TO ESTABLISH CUSTOM HIRING AGRO-SERVICE CENTRE</b>	
Duration: 8 weeks	Effective working days : 40	Total Unit : 80
<b>Beneficiary :-</b>	Rural un-employed youth and artisans, Progressive farmers, extension workers.	

### **General : ( 6 units)**

- Entrepreneurship & its Importance in custom hiring, Agro Service Center in development of rural area & promotion of Agril. Mechanization. Important Characteristics of Agro Service Center  
i) Resource based ii) demand based.
- Govt. Policies for promotion of Agricultural mechanization & Agro Service Center.
- Role of other agencies in Govt. / Non Govt. Organisation

### **Quality of entrepreneur : (10 Units)**

**Communication skill** : Definition & importance. Elements of communication. How to read, write, speak & listen. Types of communication with special reference to oral communication. Practical training on communication. Working skill on Computer with special reference to M.S. Office ,E-mail & Internet. Problems in communication. Writing business letters. Training on application of I.T. tools (Computer) for Agro Service Center.

### **Preparation of project report : ( 10 Units )**

Knowledge of planning, organization, Direction & Control of project on Agro Service Center for custom hiring. Importance of project report & its format. Identification of package of Agril. Machinery for Agro Service Center & its availability sources. Preparation of project report, Form & other procedures, rules regulation etc. with reference to custom Agro hiring service.

### **Finance : ( 6 Units )**

Procedure for obtaining loan from bank Co-operatives, State financial Cooperations. Procedure for obtaining subsidies from different Govt. & Non Govt. agencies.

### **Elements of costing & Accounting : 10 Units**

Elements of costing. -Fixed cost & Variable cost. Direct cost of Labour & other. Estimation of custom hiring rate, Maintenance of ledger, books, bank account, balance sheets etc

### **Agril. Machinery & other inputs required for Agro Service Center : 7 Units**

Working out the requirements of different machinery & user survey on farmer's field. Availability & source of machinery. Cash & credit purchase. Comparison of rates. Storage procedure. Guidelines for stocking of spare parts for different machinery & prime movers. How to manage inventories / store registers

### **Development of technical skill : 25 units**

Introduction to different Agril. Machineries & Technology available for particular Agro climates regions. Selection of appropriate tractor & other machinery / implements. Practice on operation & use of Agril. Machinery. Periodical servicing & maintenance of tractor / P.T. /Engines & Agril. Machinery, P.P. & irrigation equipments. Off season storage of Agril. Machinery. Importance of Log books & History sheets in maintenance of Agril. Machinery

### **Study tour to Industries / Agro Service Centers : 6 Units**

To conduct the study tour to different industries & Agro Service Center situated in the particular region to give the detailed exposure on Agril. Machinery & inputs required for the Agro Service Center.

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