

# Director of Employment & Training

Course :- Dynamo & Alternator Repairing

Duration :- 4 Weeks (66 Hours)

Daily Hours :- 3 Hours

Practical :- 2:30 Hours.

Theory :- 30 Minutes

**Syllabus:- Dynamo and alternator repairing**

Week No	Practical	Theory
1	Removing dynamo from the engine. Dismantaling, Cleaning and checking defect parts. Checking Field coil for open circuits, Checking armature for short circuit and open, Checking dynamo body for open circuit (carbon brush),	Working principle of dynamo, Construction detail of all dynamo parts. Function of all parts, Troubleshooting of dynamo. Various dynamo test ( armature, field coil, body).
2	Dynamo assembling and testing. Refit on the engine and set the belt tension.	Charging circuit and use of dynamo. Belt tension requirement.
3	Removing alternator from the engine . Dismantaling, Cleaning and checking defect parts. Checking of alternators various parts and circuit.	Working principle of alternator. Construction detail of all alternator parts, their function and troubleshooting of alternator. Alternator testing.
4	Assembling all parts and testing. Refit on the engine and set the fan belt tension	Difference between Dynamo and Alternator. Requirement of fan belt tension.

**Machinery:-** Dynamo test bench, Growler, Dynamo assembly, Alternator assembly.

**Tools:-** D.E.fix spanner set of 6 to 32mm, Ring spanner set of 6 to 32mm, Plier nose(Round and straight), Screw driver electrician type 150mm, screw driver 300X10mm, chisel, ball pein hammer 500gm, handvice, spanner adjustable 20cm, oil can.

**Material:-** Grease(mp), Engine oil, Bearings and Bushes of Both, emery papper smooth, Cotton waste