

DIRECTORATE GENERAL OF TRAINING (DGT)
ALL INDIA TRADE TEST, MAINS AUG 2026
CRAFTSMEN TRAINING SCHEME (CTS)
TRADE PRACTICAL EXAMINATION

TRADE: ELECTRICIAN (NSQF), 2nd YEAR
SUBJECT: TRADE PRACTICAL
TRADE CODE: 442
PAPER CODE: 26/08/C/A-2/2

Date: 17/06/2026
Time: 8 Hrs
Max. Marks: 250
Min. Marks: 150

Note: Attempt all questions.

- 1) Perform installation of home EV charging station. **(50 Marks)**
 - a. List requirement of material and procedure. **(10 Marks)**
 - b. Install and wiring the charging unit. **(20 Marks)**
 - c. Test and ensuring proper operation. **(20 Marks)**

- 2) Determine the V-I characteristics of semi conductor diode. **(80 Marks)**
 - a. List the tools equipments and materials and draw the circuit diagram. **(20 Marks)**
 - b. Connect the components as per the circuit diagram. **(20 Marks)**
 - c. Measure the voltage and current and record in the tabulation. **(20 Marks)**
 - d. Draw the V-I characteristic for the readings taken. **(20 Marks)**

- 3) Load the DC shunt motor and find efficiency at half load. **(120 Marks)**
 - a. List the tools, equipments, materials circuit diagram and procedure to load DC Shunt Motor. **(25 Marks)**
 - b. Connect a 4 point starter and start the Shunt Motor and load Shunt Motor. **(65 Marks)**
 - c. Determine the efficiency of the DC Shunt Motor at half load. **(30 Marks)**