

Part A : Employability Skills Level 1 (Theory)

अ.क्र.	यनिटचे िावु	वगळलेला घटक	वगळलेल्या आशयाबद्दल अभिप्राय/सचिा
1	Communication Skills - I	Perspectives in communication + Writing skills related to the following: 1. Phrases 2. Kinds of sentences 3. Parts of sentence 4. Parts of speech 5. Use of articles 6 Construction of a paragraph	स्वयंअध्ययनासाठी
2	Self-management Skills – I	Positive results of self-management + factors that help in building self-confidence – social, cultural, and physical factors	स्वयंअध्ययनासाठी
3	Information and Communication Technology Skills – I	ICT in our daily life (examples) + Procedure for starting and shutting down a computer + Role and functions of Central Processing Unit	स्वयंअध्ययनासाठी
4	Entrepreneurial Skills - I	Business activities around us + Distinguishing characteristics of entrepreneurship	स्वयंअध्ययनासाठी
5	Green Skills - I	Introduction to environment + Natural resource conservation	स्वयंअध्ययनासाठी

Part A : Employability Skills Level 1 (Practical)

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1	Communication Skills - I	Writing pros and cons of written, verbal and nonverbal communication + Sharing experiences on factors affecting communication at workplace + Demonstration and practice of writing sentences and paragraphs on topics related to the subject	स्वयंअध्ययनासाठी
2	Self-management Skills – I	Identification of self- management skills + Use of positive metaphors/ words	स्वयंअध्ययनासाठी
3	Information and Communication Technology Skills – I	Starting and shutting down a computer + Group discussion on the various aspects of hardware and software + Demonstration of the uses of printers, webcams, scanner and other peripheral devices	स्वयंअध्ययनासाठी
4	Entrepreneurial Skills - I	Costing of the product made out of waste + Prepare list of businesses that provides goods and services in exchange for money + Identify core skills of successful entrepreneur	स्वयंअध्ययनासाठी
5	Green Skills - I	Prepare a Poster showing the importance of green economy with the help of newspaper/magazine cuttings	स्वयंअध्ययनासाठी

25% Syllabus reduction for Power Trade (Consumer Energy Meter Technician)

Part B : Vocational Skills Level 1 (Theory)

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1	Basic Electricity - 1	Importance of electricity + Understanding KVL and KCL by evaluating basic circuits containing resistor + Single phase and three phase system + Transmission of electricity at different voltage levels	स्वयंअध्ययनासाठी
2	Handling tools and equipment's	Various electrical hand tools + Ammeter and Voltmeter	स्वयंअध्ययनासाठी
3	Electrical wiring component and accessories	Material for PVC casing capping wiring + Application of wiring material + Series and parallel connections of lamp	स्वयंअध्ययनासाठी
4	Removing the low voltage Single and three phase meter	Frequency, standard basic current, accuracy class, starting current + Impulse voltage, withstand test for 1.2/50 micro sec, power consumption + Material for PVC and MS conduit pipe wiring; material for concealed wiring + sealing the meter	स्वयंअध्ययनासाठी

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1	Basic Electricity -1	Identify conductor, insulator and resistor + Voltage, current measurement using multimeter + measure the earth resistance	स्वयंअध्ययनासाठी
2	Handling tools and equipment's	Select the appropriate hand tools for work + visit to the market and note the brand of various electrical hand tools + Identify and explain various parts of electronic meter + Demonstrate the types and specifications of different types of meter	स्वयंअध्ययनासाठी
3	Electrical wiring component and accessories	List various wiring material + Identify various wiring material + circuit diagram of simple wiring + check the connection of one lamp by one switch + prepare a straight joint of 7/20 PVC wire + prepare "T" joint of 7/20 PVC wire + prepare a Britannia joint of Bare Copper conductor (Overhead line)	स्वयंअध्ययनासाठी
4	Removing the low voltage Single and three phase meter	Note down the make and type of the meter + check the energy meter + visit the meter testing lab and observe the meter testing procedure + Inspect the facility wiring system and recognize any possible risks associated + Plan and locate the area inside or outside the customer's premise after assessing possible risks + Check the customer premises is accessible to carry out the installation process	स्वयंअध्ययनासाठी

Part A : Employability Skills Level 2 (Theory)

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1	Communication Skills - II	Writing skills related to the following: 1. Phrases 2. Kinds of sentences 3. Parts of sentence 4. Parts of speech 5. Use of articles 6 Construction of a paragraph	स्वयंअध्ययनासाठी
2	Self-management Skills – II	Taking nature walks+ Describe the types of selfawareness	स्वयंअध्ययनासाठी
3	Information and Communication Technology Skills – II	File concept, file operations, file organization, directory structures, and filesystem structures+ Cleaning computer components	स्वयंअध्ययनासाठी
4	Entrepreneurial Skills - II	Entrepreneurship and society+ Myth about entrepreneurship	स्वयंअध्ययनासाठी
5	Green Skills - II	. Definition of sustainable development	स्वयंअध्ययनासाठी

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1	Communication Skills - II	Exercises and games on applying 7Cs of effective communication+ Demonstration and practice of writing sentences and paragraphs on topics related to the subject	स्वयंअध्ययनासाठी
2	Self-management Skills – II	Preparing a write-up on an essay on experiences during a holiday trip + Executing tasks in a specific period, with no help or directives + Demonstration on the qualities required for working independently	स्वयंअध्ययनासाठी
3	Information and Communication Technology Skills – II	Identification of task bar, icons, menu, etc.	स्वयंअध्ययनासाठी
4	Entrepreneurial Skills - II	Writing a note on entrepreneurship as career option+ Group discussion of self-qualities that students feel are needed to become successful entrepreneur	स्वयंअध्ययनासाठी
5	Green Skills - II	Preparing models on rain water harvesting, drip / sprinkler irrigation, vermin-compost, solar energy, solar cooker, etc.	स्वयंअध्ययनासाठी

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1	Installation of low voltage single and three phase meter.	Establish immunity against various types of external factors in accordance + Regulations and organisational procedures with relevant regulations + Check whether the meter is complied with the requirements + Reasons: discrepancies (stoppage of meter, erratic consumption output, broken seal, burning of damage of meter) , service disconnection.	स्वयंअध्ययनासाठी

2	Meter reading and post installation procedure	Maintaining the log of the meter reading of the particular consumer.	स्वयंअध्ययनासाठी
3	Bus bar and distribution box connected to the meter	Electrical circuit (series/ parallel) + Daisy chain and point to point + Basic AutoCAD commands + Components of electromechanical assembly.	स्वयंअध्ययनासाठी
4	Safety Precautions for electrical work	Shop discipline + Safety Precautions electric.	स्वयंअध्ययनासाठी

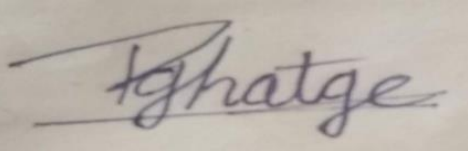
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1	Installation of low voltage single and three phase meter.	. Check whether the energy meter equipped with amplifying features as per the government guidelines + Check and test the name of the parameters associated with it + Check if the meter CCD complies with the load of the consumer connection + Check the parameters such as : cumulative reactive energy , average power factor + Establish the reason for changing the energy meter from responsible source in order to plan out the work.	स्वयंअध्ययनासाठी
2	Meter reading and post installation procedure	Identify the meter location + Check the consumers number.	स्वयंअध्ययनासाठी
3	Bus bar and distribution box connected to the meter	Read the specification of wire + Use AutoCAD software to make drawing of the control panel + place the board integrated with the components inside the pannel + Organize the cables and clip them together.	स्वयंअध्ययनासाठी
4	Safety Precautions for electrical work	Prepare a list of emergency contact numbers + Demonstrate CPR on a person + watch a video on YouTube demonstrating the use of fire extinguisher.	स्वयंअध्ययनासाठी

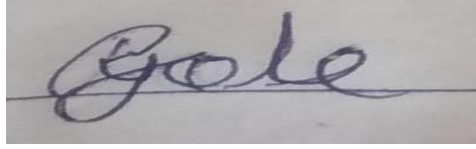
टीप-

१) शालेय वर्ष २०२०-२१ करिता प्राप्त होणाऱ्या मल्यमापांितातु ि ू Consumer Energy Meter Technician (Trade: Power) इयत्ता 9वी व 10वी करिता वील पाठ्याघटक वगळण्यात आले आहेत. अंतगतग मल्यमापि तसेच वार्षकगू पीक्षामध्ये या घटकावि आधािीत प्रश्ि वंचालिे जाऊ ियेत.

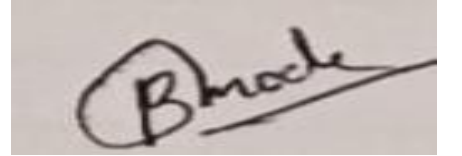
२) सदि मजकूि पायाित ू पाठ्यपस्तकात अंतुि त आहे. म्हणजे तो त्या वर्षयाूग च्या अभ्यासासाठी उपयोगी आहेच.पण भशकवण्यास पिसा वेळ िाही म्हणु ि तो ू वदयार्थयांिा स्वयअं धयािासाठी सोडला आहे. २०२०-२१ या वर्षागच्या पीक्षासाठी त्यावि प्रश्ि येणाि िाहीत. पढील वर्षागच्या अभ्यासासाठी ु स्वयंअधयािासाठी सोडलेला मजकूि उपयोगी अस शकेल वधयार्ागी त्याचा त्यांच्या सवडीिे अभ्यास ू कायचा आहे.



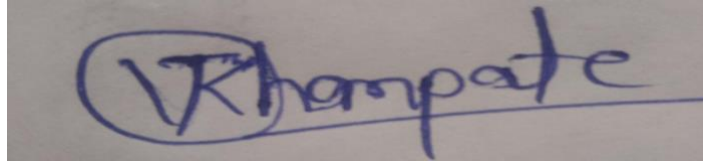
Mr. Prabhakar Ghatge.



Miss. Rashmi Gole.



Mr. Rameshwar Mode



Mr. Venkat Khanpate.