

Teaching and Training

Students will gain knowledge and skills related to various tasks for the job role of Field Technician Air Conditioner through classroom teaching, practical training in Lab, exposure to activities during field visits and on-the-job training.

Job Opportunities

Field Technician Air Conditioner,
Air Conditioner Maintenance
Technician, HVAC Technician.

Related Websites

About Sector:

<https://www.essc-india.org>

About Higher Education

<https://www.ugc.gov.in>

About Curriculum and Courseware

<https://www.psscive.ac.in>

About Apprenticeship Training

<https://www.apprenticeshipindia.gov.in>

About Career Opportunities

<https://www.ncs.gov.in>



**For further information,
please contact**

Dr. Deepak D. Shudhalwar
Professor
Department of Engineering and
Technology,
PSSCIVE, Bhopal

Published by



Joint Director
PSS Central Institute of Vocational
Education (PSSCIVE), NCERT,
Shyamla Hills, Bhopal – 462 002,
Madhya Pradesh, India

www.psscive.ac.in

Field Technician Air Conditioner

(Grades 11 & 12)

QP Code: ELE/Q3102





Introduction

Vocational subjects are being offered along with general education subjects from Grades 9 to 12 under the scheme of *Samagra Shiksha*. The Ministry of Education, Government of India is implementing *Samagra Shiksha* in schools.

The curricula and textbooks for the vocational subjects have been developed by the PSS Central Institute of Vocational Education (PSSCIVE) as per the National Occupation Standards for the Job Roles approved under the National Skills Qualifications Framework (NSQF) in various sectors.

About the Sector

Electronics Sector include jobs and businesses in Computer hardware installation, Television, Home Appliances, and Smart phones. The uprise of IoT and networks are providing drive to the fast-growing adoption of electronic products. The sub-sectors are IT Hardware, Consumer Electronics, PCB Manufacturing & Assembly, Communication & Broadcasting, Semiconductor Design, Industrial Electronics and Medical Electronics.

About the Job Role

Field Technician Air Conditioner needs the knowledge of air conditioning systems, mechanical, electrical and electronic components such as motors, compressors, pumps, fans, thermostats and switches. They are responsible for installation, troubleshooting and maintenance of air conditioner, perform corrective and preventive maintenance, identify and rectify the minor problems and replaces faulty modules or recommends factory repair for bigger faults.

Minimum Qualifications

The candidate should have passed Grade 10, possesses the ability to read/write and communicate effectively.

Course Outline

Grade 11

Part A	Employability Skills
Unit 1	Communication Skills III
Unit 2	Self-management Skills III
Unit 3	Information and Communication Technology Skills III
Unit 4	Entrepreneurship Skills III
Unit 5	Green Skills III
Part B	Vocational Skills
Unit 1	Basic Electricity
Unit 2	Basic Electronics
Unit 3	Compressor Technology
Unit 4	Installation of Air Conditioner
Unit 5	Workplace Safety Measures

Grade 12

Part A	Employability Skills
Unit 1	Communication Skills IV
Unit 2	Self-management Skills IV
Unit 3	Information and Communication Technology Skills IV
Unit 4	Entrepreneurship Skills IV
Unit 5	Green Skills IV
Part B	Vocational Skills
Unit 1	Repair and Maintenance of Air Conditioner
Unit 2	Troubleshooting IoT applications in Air Conditioner
Unit 3	Advanced Technologies in Air Conditioning
Unit 4	Workplace Safety Measures