

Implementing Technology

# Certificate of Training

This Certificate is Presented to

*Shreyas R*

For Successfully Completing the

## PCB Design Course

Awarded on 25 Feb 2013

Percentage Scored : 88%

Course Duration : 50 Hours

Chief Executive  
[www.sbtechindia.com](http://www.sbtechindia.com)



**Project details:**

Project: CAD design for Power Monitoring Equipment

Standards used: IPC2221

Tools used: OrCAD 10.5

No of layers: 4 layers

Modules:

Schematic Entry

Library Creation

Netlist Generation

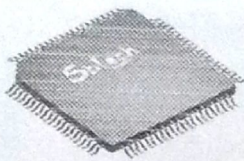
Foot print Creation

Layout Design

Gerber Generation

Validation and DRC

End Product Application: Power monitoring of electrical equipments remotely



# S.B. TECHNOLOGIES

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## EXAM RESULTS

Name:SHREYAS R	Date: 02-03-2013
User:shreyas	
Allocated Start Time:	25-02-2013 16:00 Hrs
Allocated End Time:	25-02-2013 16:25 Hrs
Allocated Duration:	25 Mins.

Title:	CAD/ CAM PROFESSIONAL
Exam Start Time:	25-02-2013 16:00:11 Hrs
Exam End Time:	25-02-2013 16:07:53 Hrs
Duration Utilised:	00:07:42 Hrs
Total Questions:	25
Answered:	24
Un Answered:	1
Correct:	22
Wrong:	2
Scored Percentage:	88 %

### Topics Covered:

- Overview of PCB with introduction
- About the Base Material
- Component Identification
- Types of PCBs & Overview of PCB Technologies
- Overview of Manual Routing Technologies
- General Rules for Design of PCBs · Design Factors
- Introduction to Schematic & Entry of Schematic Diagram
- Netlist File Creation ·
- Introduction to Via and usage of Via
- Introduction to PCB Layout Design
- Library & Foot Print Creation
- Multi Layer Concepts
- AutoPlacement of Components
- Autorouting
- Enhanced Routing Techniques
- Routing of SMD Components
- Copper Pour
- Post Processing
- Test

Chief Executive