



Helping you prepare your students for

ETA ELECTRONICS CERTIFICATION

ELECTRONICS

Complete Program for
Student Electronics
Technician (SET)

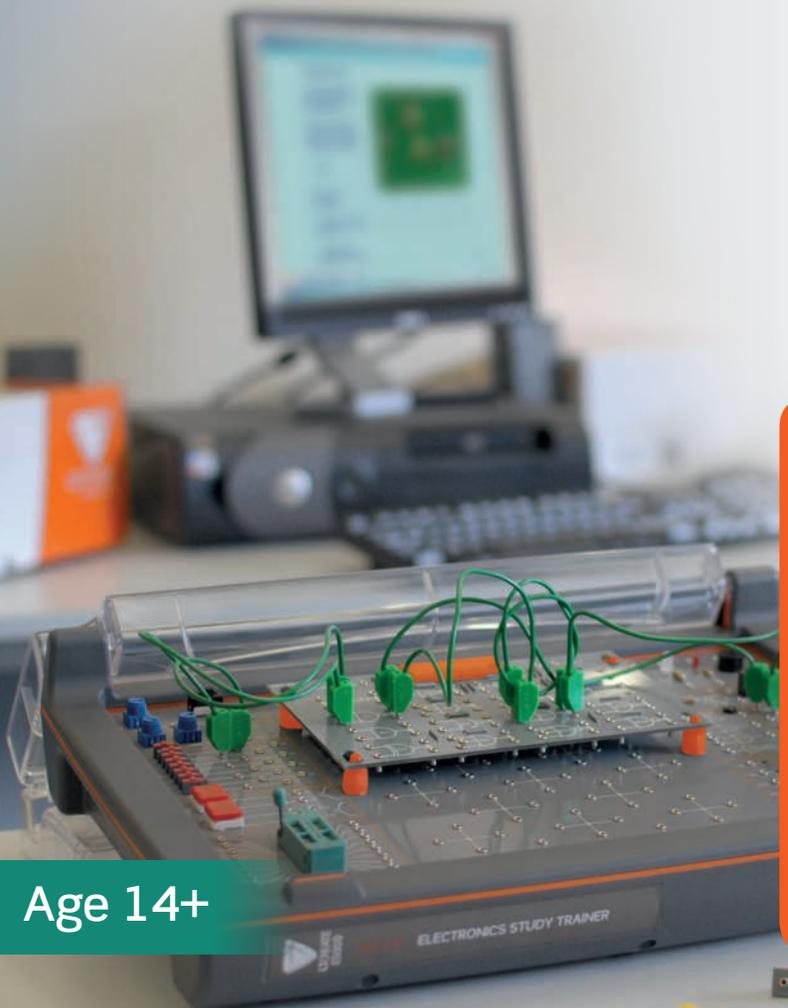
Our electronic engineering programs provide instruction for:

- Principles and Application of Analog and Digital Electronics
- Electronic Circuit Design and Construction
- Microprocessor Systems and Applications
- Electronic Fault Finding

Brand new electronic systems trainer

- Everything you need to teach a complete program
- Quick and easy hands-on learning for students of all abilities
- Perfect blend of component based and systems training
- Project-based circuit construction and troubleshooting

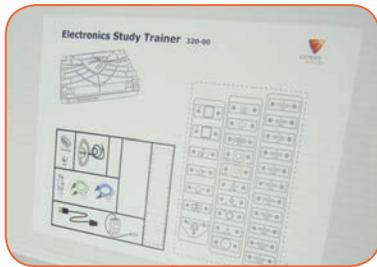
Age 14+



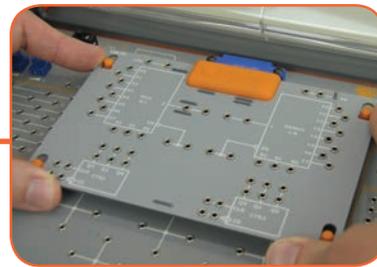
Everything you need to teach a complete electronics course

Our self-contained electronics program gives you all the resources you need. This compact solution includes an electronics trainer and a range of interchangeable cards.

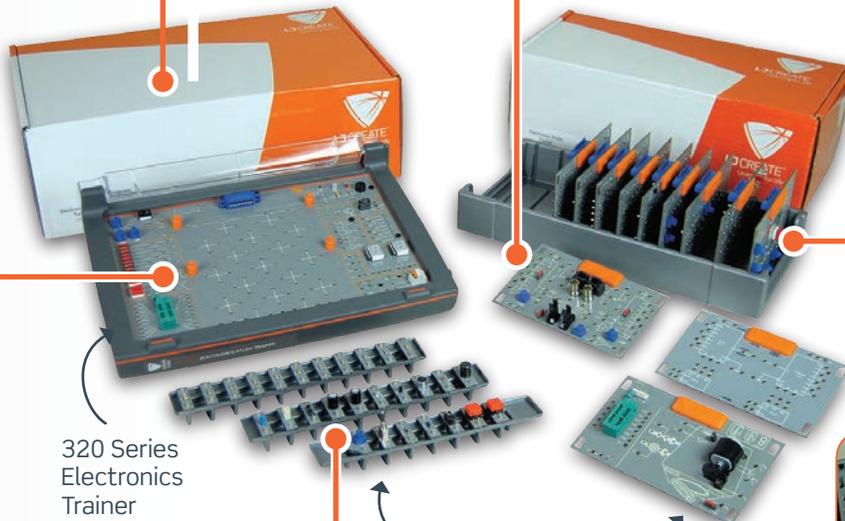
Inventory to check items back in place



Add a study card to build more complex circuits



Scheme of Work



320 Series Electronics Trainer

Durable Discrete Components

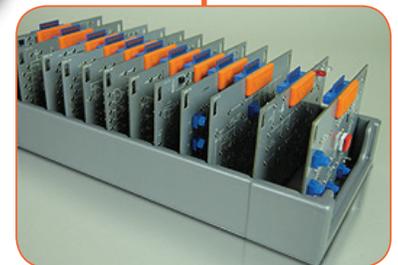
320 Series Cards



Switched faults for troubleshooting tasks



Patch simple circuits quickly and easily with a range of discrete components



Choose from 13 interchangeable study cards organized in the study card storage system



Preparation



Integrated Math and English Support

1. Teacher **unit plans** that let you spend your **valuable time teaching**

Quick and easy hands on learning journey for students of all abilities

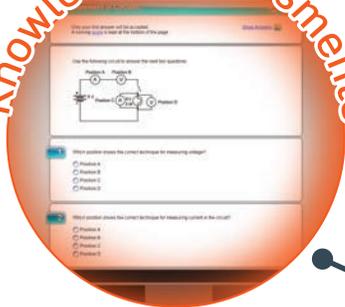
A 5-step process that gives you everything you need to teach electronics

Knowledge lessons



2. Digital content lessons to **reinforce a theoretical understanding** of the subject area. Includes **active learning** using on-screen circuit construction simulators

Knowledge assessments



3. Knowledge assessments that **test student understanding**

4. Hands-on, **reliable, repeatable experiments** ensure success and **consistent results** every time when building circuits, even if you have varying skill levels in your class.

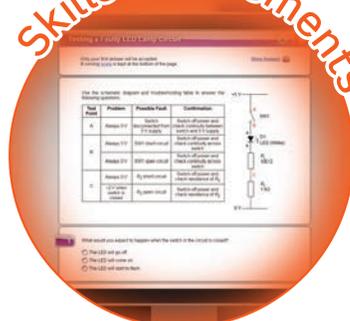
Skills lessons



Perfect blend of component-based and systems training

- Patch discrete components quickly and easily
- Add an interchangeable study card for more complex circuits
- Or combine the two for even more flexibility!
- Controlled troubleshooting faults that really test circuit understanding
- Soldering and solderless prototyping processes to practice construction techniques

Skills assessments



5. Skills assessments that **test student understanding**

ETA Student
Electronics Technician
(SET Competencies)

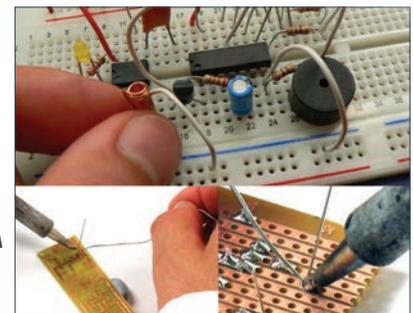
	LIB3: 07 Industrial Control	LIB3: 08 Electronic Systems	LIB3: 09 DC Circuits	LIB3: 10 Electrical Networks	LIB3: 11 AC Circuits	LIB3: 12 Magnetism & Electromagnetism	LIB3: 13 Electrical Engineering	LIB3: 14 Linear Electronics	LIB3: 15 Semiconductors	LIB3: 16 Power Electronics	LIB3: 17 Digital Electronics	LIB3: 18 Telecommunications	LIB3: 19 Microprocessors	LIB3: 20 Circuit Construction and Testing	Other Libraries
1.0 Safety							●				●				●
2.0 Electron Theory						●									●
3.0 DC Basics			●	●											
4.0 AC Basics			●		●	●									
5.0 Wires and Cables							●					●			
6.0 Electronic Components		●	●			●	●								
7.0 Semiconductors									●						●
8.0 Power Supplies		●				●		●	●						
9.0 Amplifier and Analog Circuits								●	●						
10.0 Interfacing of Electronic Components		●							●		●				
11.0 Digital Concepts and Circuitry															
12.0 Computer Electronics													●		
13.0 Computer Applications															●
14.0 Audio and Video Systems															●
15.0 Optical Electronics		●							●		●				
16.0 Telecommunications Basics												●			●
17.0 Industrial and Manufacturing Automation	●					●	●	●		●					
18.0 Test Equipment and Measurements				●	●						●				
19.0 Soldering - Desoldering Tools														●	
20.0 Troubleshooting and Repair Procedures		●	●	●	●	●		●	●	●	●	●	●	●	●

Soldering and solderless project-based circuit construction

Complement the success of building circuits on the 320 series electronics trainer with our **stripboard, PCB and breadboard project units**, designed to develop students' circuit construction skills.

Breadboard

PCB Soldering



Stripboard Soldering

For more information on our range of learning resources, please contact:

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