



Helping you prepare your students for

ETA ELECTRONICS CERTIFICATION

ELECTRONICS

Complete
Program
for Student
Electronics
Technician (SET)

Brand new certification program

- 100% standards coverage: everything you need to teach a complete SET program.
- Quick and easy hands-on learning for students of all abilities.
- Perfect blend of component-based and systems training.
- Detailed, pre-prepared, 4-block course.
- Includes tracked formative and summative tests.

Featuring a brand new
electronic systems trainer

- Flexible trainer for teacher demo, group work, and independent learning.
- Portable for any classroom: no need for a dedicated electronics lab.
- Start building circuits in 30 seconds, stack to store when the lesson is over.

Age 14+

ELECTRONICS STUDY TRAINER

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.

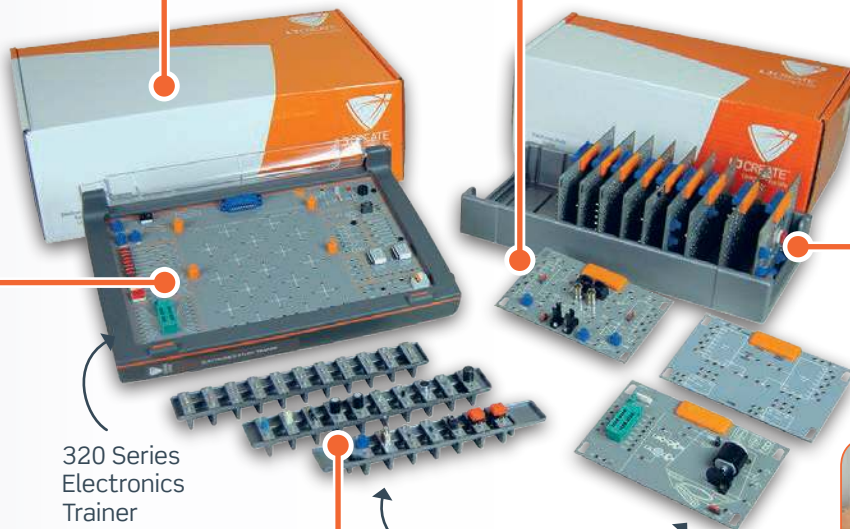
Inventory to check items back in place



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.

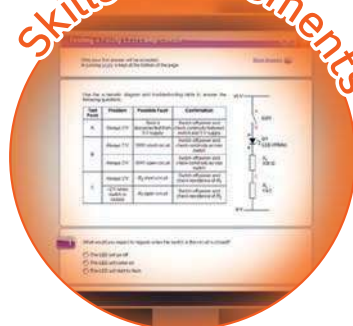
Skills lessons



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**

LJ Create Library Lesson Crosswalk

ETA Student Electronics Technician (SET Competencies)

	Presentations	Investigations	Practicals	Assessments	Total Lessons
Fundamentals of Electronics	29	30	18	50	127
Safety	6	8	0	8	22
Electron Theory	3	1	4	7	15
DC Basics	10	11	9	20	50
AC Basics	10	10	5	15	40
Analog Circuits and Electronic Components	16	15	20	43	94
Wires and Cables	0	2	0	2	4
Electronic Components	4	2	3	7	16
Semiconductors	5	6	9	17	37
Power Supplies	2	2	1	4	9
Amplifier and Analog Circuits	5	3	7	13	28
Digital Circuits and Electronic Systems	28	12	15	43	98
Digital Concepts and Circuitry	11	4	10	21	46
Interfacing of Electronics Products	3	2	1	4	10
Computer Electronics	7	1	3	10	21
Computer Applications	6	3	1	6	16
Audio and Video Systems	1	2	0	2	5
Applications of Electronics	24	20	15	47	106
Optical Electronics	3	2	1	5	11
Telecommunications Basics	4	6	3	9	22
Industrial and Manufacturing Automation	6	6	1	7	20
Test Equipment and Measurements	2	2	1	5	10
Soldering - Desoldering Tools	5	2	5	11	23
Troubleshooting and Repair Procedures	4	2	4	10	20

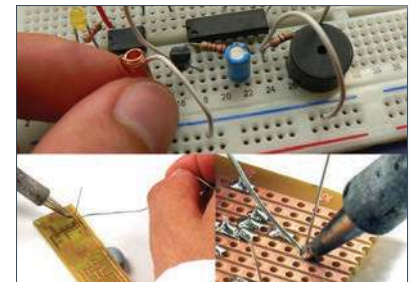
Soldering and solderless project-based circuit construction

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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