



Working with STEM Learning Cloud – Engineering

Brought to Australia and New Zealand by



Pullman Academic

Better Learning Outcomes

A Division of Pullman Learning Group

Start work in 2 minutes

World class hardware for
hands-on training



LJ Create Engineering – Innovation in Education

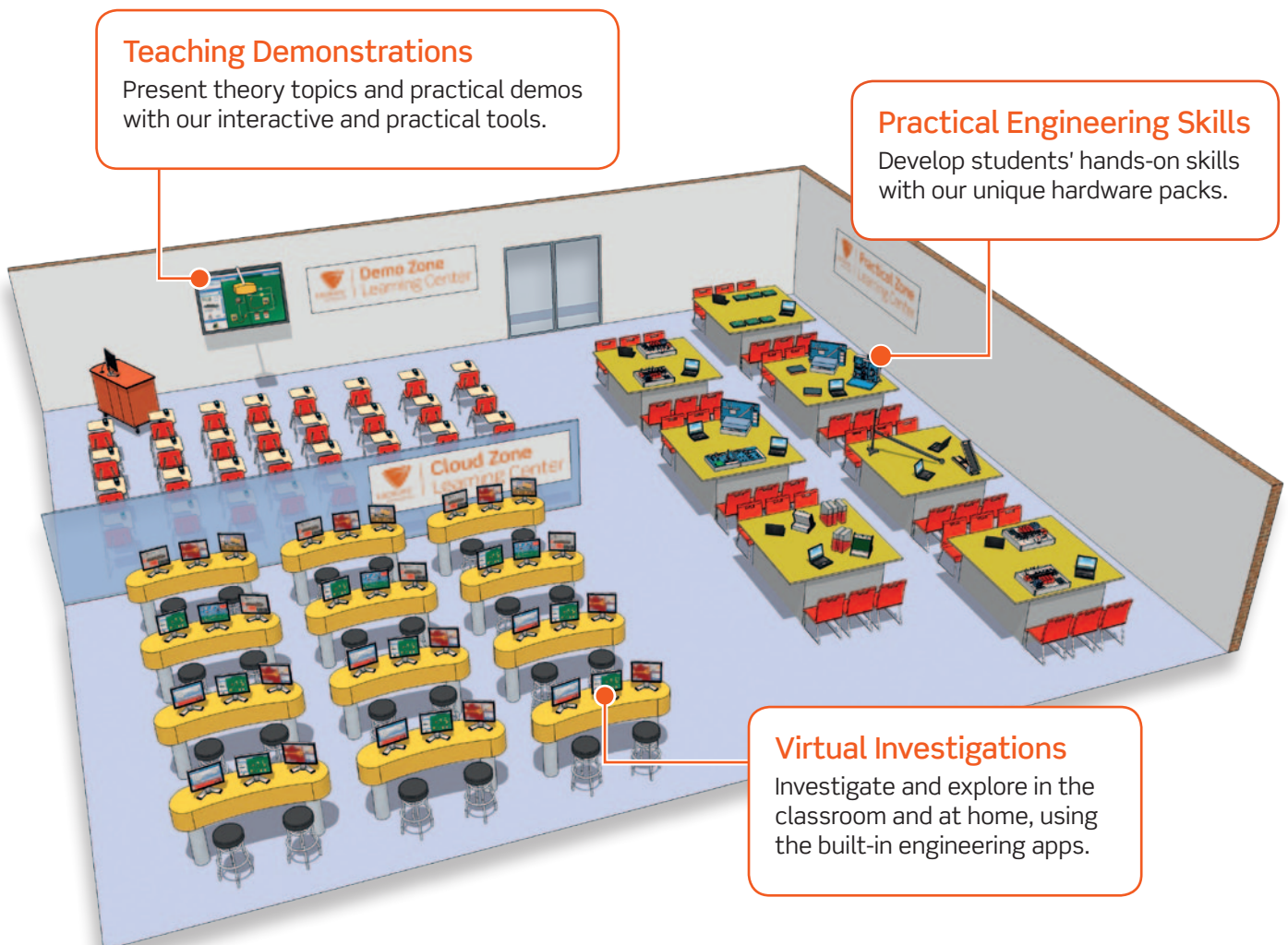
LJ Create Engineering combines a series of cloud-based resources with hands-on practical equipment that can be used to create a multi-mode teaching facility.

Deliver the knowledge and practical skills students need to achieve success in their engineering studies.

The dynamic content and related equipment packs address a broad range of related engineering areas, including:

- Mechanical Engineering
- Electronic Engineering
- Control and Instrumentation

The Multi-Mode Engineering Learning Environment



The descriptions, images and availability of systems contained in this brochure are based on information available to Pullman Learning Group at the time of printing. While we endeavour to update this information regularly, from time-to-time descriptions may change or systems may be modified or discontinued.

LJ Create Engineering – Cloud Software Package



The LJ Create Engineering cloud-based software packages are based upon a large library of content that is continuously growing and updated to meet a wide range of engineering-related teaching standards.

Our Solution

Purchase an annual site licence and you will be provided with a domain within our Automotive database that provides the following:

- Easy access via our cloud-based portal
- Continuously updated content
- Access for all enrolled students and staff
- Student and school performance reporting facilities



Beautiful, Immersive Content

The range of content provided will allow each topic area to be supported with amazing and captivating resources. The multi-mode nature of the content provides the following types of learning materials:

- Multimedia Presentations
- Virtual Lab Investigations
- Hands-On Lab Activities
- Academic and Technical Support Tasks
- Topic Assessments

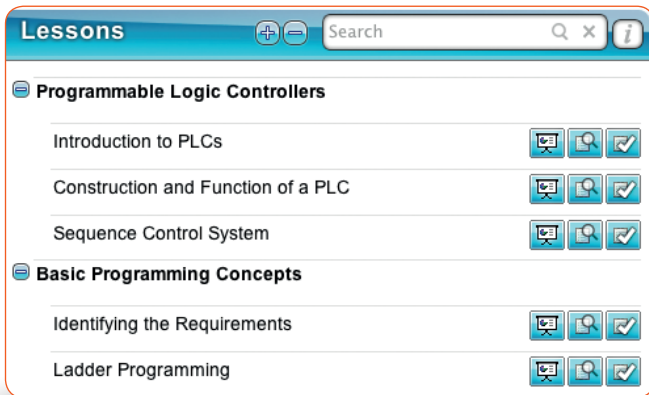
The following pages allow you to explore the cloud-based learning environment and see how the practical tasks within the learning content link to our unique automotive hardware packs.

LJ Create Engineering – Annual Site License
Order As: **WWS/AL**

LJ Create Engineering – Putting Interactive Learning into the

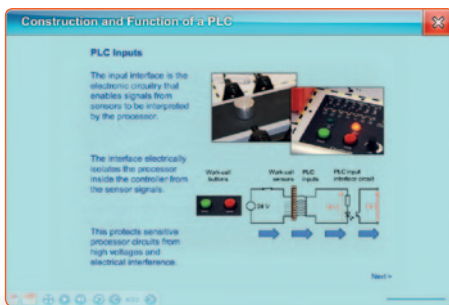
eLEARNING

A wide range of presentations, investigations and assessments to help develop skills and knowledge.

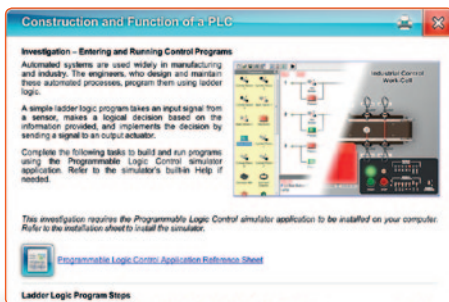


EXAMPLE CONTENT

Presentations



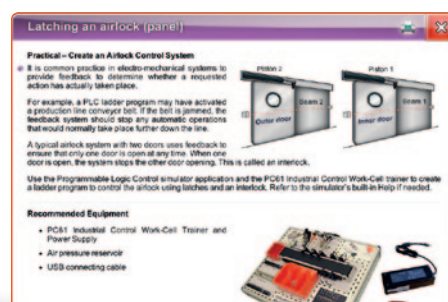
Investigations



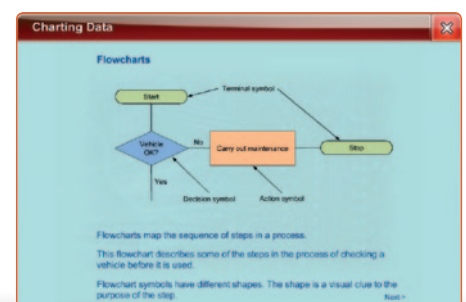
Assessments



Practical Tasks



Support Materials



Our Two-Minute Rule

Once a user has logged in, they are ready to start work with no installation or training required.

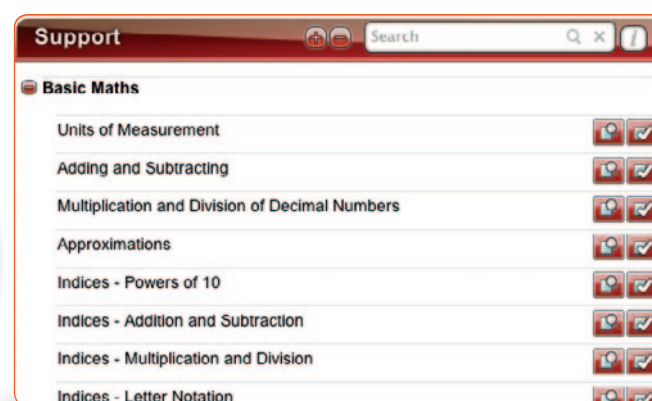
The intuitive menu system has been designed to meet our 'two-minute rule'.

We insist to our content development team that you **MUST** be able to use our software within two minutes.



ACADEMIC AND TECHNICAL SUPPORT

Resources offering background technical knowledge and academic support for maths and English.



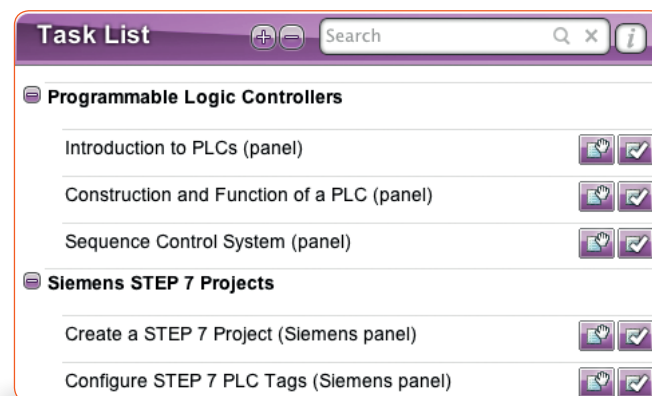
LEARNING MANAGEMENT SYSTEM

Automatically tracks and records student/school progress and attainment.

Course	Hours	Days	Score
Materials Engineering	17	9	67%
Manufacturing Engineering	19	11	91%
Mechanical Measurement	21	10	87%
Electrical Measurement	20	10	88%
Engineering Drawing	17	8	77%
Energy and Power	16	12	72%
Number systems	16	12	60%
Control Systems	22	10	81%
Hydraulic and Pneumatic Control Systems	22	11	82%
Programmable Control	21	9	80%
Feedback Control Systems	18	9	88%
Fieldbus Systems	17	9	91%
Frequency Converters	17	8	92%
Power Supplies	16	9	70%
Machine and Instrument Engineering	21	9	79%
Maintenance	22	10	80%
Basics of CNC	20	11	87%

PRACTICAL TASKS

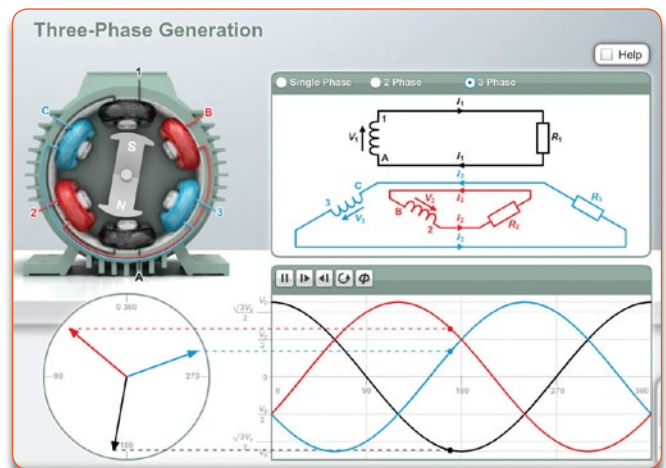
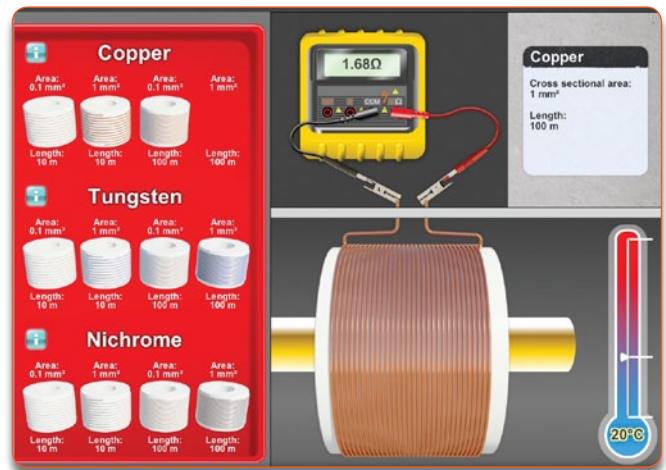
Hands-on activities linked to theoretical resources provide users with the ability to develop practical skills.



LJ Create Engineering – Cloud Software Package

The LJ Create Engineering Cloud Software Package includes the following topic groups:

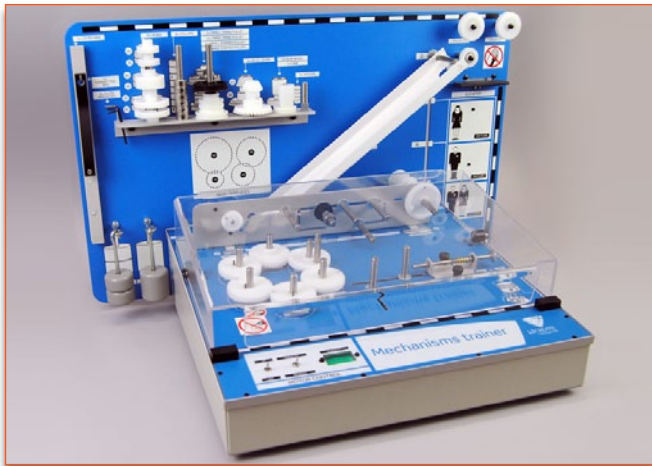
- Materials Engineering
- Engineering Drawing
- Fluid Power
- Manufacturing Engineering
- Machine and Instrument Engineering
- Inspection, Maintenance and Quality Management
- Industrial Control
- Electronic Systems
- DC Circuits
- Electrical Networks
- AC Circuits
- Magnetism and Electromagnetism
- Electrical Engineering
- Linear Electronics
- Semiconductors
- Power Electronics
- Digital Electronics
- Telecommunications
- Microprocessors
- Circuit Construction and Testing
- Electronic Principles
- Semiconductors
- Power Electronics
- Digital Electronics
- Electronic Systems
- Electronic Principles
- Linear Electronics
- Semiconductors
- Digital Electronics
- Microprocessors



LJ Create Engineering – Annual Site License
Order As: WWS/AL

Mechanical Engineering Hardware

Mechanisms Trainer



The Mechanisms Trainer offers a classroom based resource for practical investigation of a variety of fundamental mechanical systems.

The trainer allows users to investigate gears, pulleys, levers, cams, belt drives, and inclined planes.

Typical Practical Activities Include:

- Identify the different types of motion found in mechanical systems.
- Demonstrate the effect of using an idler gear in a simple gear train.
- Determine compound gear train ratios and speed.
- Identify the purpose of belt drives.
- Demonstrate the relationship between distance and effort for a pulley system.
- Measure effort and movement for first, second and third class levers.
- Demonstrate how the profile of a cam affects the output of the cam follower.
- Calculate the mechanical advantage provided by an inclined plane.
- Identify how lubricants, bushes and bearings are used to reduce friction.

The Set Includes:

- Mechanisms Trainer
- Power Supply
- Accessory Kit

Order As: 260-01

Electro-Pneumatics Trainer



The Electro-pneumatics Trainer offers a classroom-based resource for practical investigation of pneumatic components and systems. The trainer consists of a two-part rig, the first of which allows users to connect components to create fundamental circuits.

The second element is an electro-pneumatic sorting system that brings together electronic sensing, actuators and logic gates to sort clear and black parts into different bins.

Typical Practical Activities Include:

- Discover the symbols used to represent pneumatic components.
- Demonstrate the operation of single acting and double acting cylinders.
- Construct a pneumatic circuit to use a shuttle valve.
- Identify the use of flow regulators in controlling cylinder speed.
- Construct pneumatic circuits to function as OR, AND & NOT operators.
- Observe how a time delay can be constructed into a pneumatic circuit.
- Construct electronic circuits to control a pneumatic system.

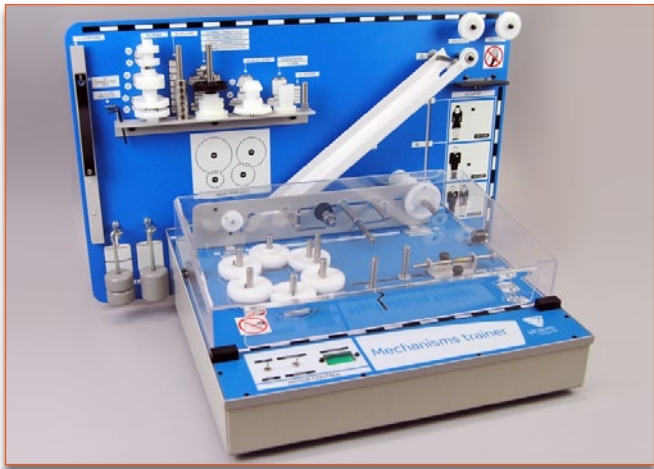
The Set Includes:

- Trainer (Part 1 – Component Board)
- Trainer (Part 2 – Electro-pneumatic Sorter)
- Hand Operated Air Compressor
- Power Supply
- Accessory Kit

Order As: 270-01

Mechanical Engineering Hardware

Hydraulics Trainer



The Hydraulics Trainer offers a classroom-based resource for practical investigation of hydraulic components and systems.

The trainer consists of a rig and push fit hydraulic hoses to allow rapid circuit connection and setup. Students can investigate cylinders and valves in a variety of circuit configurations and input pressures.

Typical Practical Activities Include:

- Identify the fundamental parts of a hydraulic system.
- Construct a hydraulic circuit to operate a hydraulic cylinder.
- Compare hydraulic components to schematic symbols.
- Identify the basic laws governing hydraulics.
- Demonstrate Pascal's law.
- Explain the operation of hydraulic actuators.
- Measure the pressure created by a hand pump.
- Control cylinder speed using a flow control valve.

The Set Includes:

- Hydraulics Unit
- Hydraulic Hose Set
- Accessory Kit
- Lever and Mass Set
- Drip Tray
- Hydraulic Fluid

Order As: 280-01

Fluid Power Student Resource Pack



The Fluid Power Resource Pack offers a classroom based resource for practical investigation of fundamental hydraulic concepts.

The pack consists of a variety of syringes and connectors neatly contained in a plastic storage box.

Typical Practical Activities Include:

- Making use of Pneumatics
- Compressing Fluids

The Set Includes:

- 5 x T-Piece Connectors
- 3 x 20 ml Syringe
- 2 x 10 ml Syringe
- 2 x 2.5 ml Syringe
- 4mm Poly Tube (450mm)
- Fluid Bleeding Container
- Storage Case

Order As: 278-01

Control and Instrumentation Hardware

Industrial Control Trainer



The Industrial Control Trainer offers a classroom based resource for practical investigation of automated control systems. Users can select from a range of prepared demonstration programs to explore how step-based ladder logic programs are used in automated systems.

Typical Practical Activities Include:

- Simulate custom manufacturing by building models.
- Construct ladder logic programs.
- Investigate the sequence of events for a PLC to activate an actuator.
- Identify how to read and construct truth tables.
- Build a latching program to control an actuator.
- Complete a ladder logic program for an airlock control system.
- Use a counter in a ladder logic program.
- Use a timer to delay lighting a lamp after a button is pressed.
- Adapt a ladder logic program to give indication of the width of a part on a conveyor.
- Create a program that will automatically sort parts according to their width.

The Set Includes:

- Industrial Control Sorting Application
- Power Supply
- USB Lead
- Accessory Kit (Includes conveyor shroud)
- Hand Operated Air Compressor
- Sorting Application Simulation Software

Order As: 290-01

Industrial Control Trainer Teaching Set



This training system offers a platform that enables students to perform a comprehensive range of PLC programming tasks using a Siemens controller and a conveyor belt/pneumatic sorting application.

Simulation software of the Industrial Control Trainer is included in the package, to help introduce the basic concepts of PLCs and ladder logic at a fundamental level.

This enables the whole class to carry out simulated PLC control tasks and activities at the same time. Using this software, groups of students create ladder logic programs to control devices on the trainer using a graphical-based programmable logic control (PLC) editor.

These programs can be used to control either the hardware or the simulator. Used in this mode, only a simple USB connection is required to enable the ladder logic software to control the hardware unit. As students progress through the learning content they develop more complex programming skills, and step up a level to use the Siemens S71200 PLC and associated Step 7 programming software.

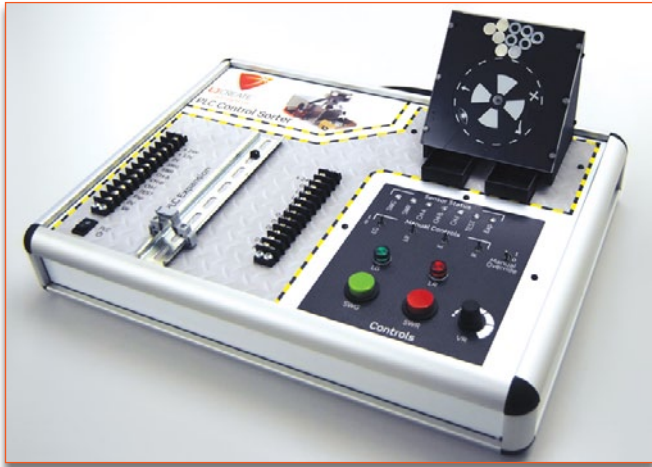
The Set Includes:

- Industrial control trainer, manual air compressor, accessory kit, simulated PLC ladder logic software and simulation of application (290-01)
- Siemens S71200 PLC and STEP 7 programming software (290-02)

Order As: 290-00

Control and Instrumentation Hardware

PLC Trainer



This training system offers a rotating disc sorting application to teach the fundamentals of PLC control. Software simulation of the trainer is included in the package to help introduce the basic concepts of PLCs and ladder logic.

This enables the whole class to carry out simulated PLC control task activities at the same time. Using this software, groups of students create ladder logic programs to control devices on the trainer using a graphical-based programmable logic control (PLC) editor.

These programs can be used to control either the hardware or the simulator. Used in this mode, only a simple USB connection is required to enable the ladder logic software to control the hardware unit.

Typical Practical Activities Include:

- Creating a program that will automatically sort parts based upon the presence of a hole.
- Debugging and running control programs on a remote Siemens PLC.
- Troubleshooting an industrial control system
- Using the Siemens Step 7 remote programming software.
- Downloading control programs to a remote Siemens PLC.

The Set Includes:

- PLC Trainer Application and Accessory Kit
- PLC ladder logic control software (site license)
- Industrial workcell simulator (site license)

Order As: 291-01

PLC Trainer Teaching Set



The PLC Trainer Teaching Set offers a rotating disc sorting application to help teach the fundamentals of PLC control. Students program the application using an industrial standard PLC.

Software PLC Simulator is included in the package, designed to introduce the basic concepts of PLCs and ladder logic. This enables the whole class to carry out simulated PLC control task activities at the same time.

The interface software also allows for users to develop their own programs using ladder logic-style programming commands.

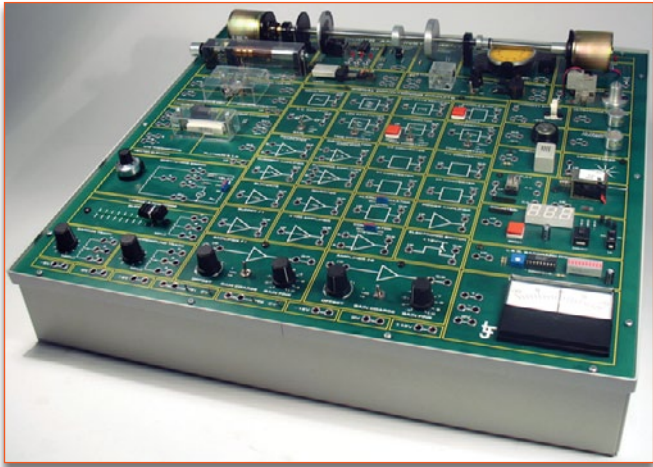
The Set Includes:

- Introduction to PLCs application, accessory kit, PLC ladder logic and application simulation software (291-01)
- Siemens S71200 PLC and STEP 7 programming software (290-02)

Order As: 291-00

Control and Instrumentation Hardware

Transducers, Instrumentation & Control Trainer



The Transducers and Instrumentation Trainer introduces students to input sensors, output actuators, signal conditioning circuits, and display devices through a wide range of hands-on practical activities.

This self contained trainer has all the necessary power supplies, light sources and compressed air supplies to carry out a wide range of hands on experimental work.

It is possible to build and test complete closed loop control systems for rotary speed and position, making the trainer ideal for use in control engineering teaching.

Typical Practical Activities Include:

- Compare the applications of a carbon track variable resistor with those of a wire-wound type.
- Deduce temperature from a voltage reading across a transducer.
- Compare the various methods of measuring sound signals.
- Select a suitable display device for a particular voltage measurement.
- Investigate the construction and characteristics of an air flow transducer.
- Determine the characteristics of an ON/OFF control system.
- Investigate the characteristics of a speed control system.

The Set Includes:

- Trainer
- Accessory and Lead Kit
- Mains Lead

Order As: 217-50

Transducers, Instrumentation & Control Set



This resource package is a complete control and instrumentation training system that includes virtual test equipment and curriculum manuals.

With 26 different input transducers, 12 output transducers, 26 signal conditioning circuit elements, and integrated power supplies, the Transducers and Instrumentation Trainer 217-50 is the most comprehensive trainer available. The transducer and signal conditioning elements of this trainer are typical of those used throughout industry.

The Set Includes:

- Transducers, Instrumentation and Control Trainer (217-50)
- Data Acquisition of Control Systems (217-60)

Order As: 217-00

Control and Instrumentation Hardware

Robotics Trainer



The Robotics Trainer offers a classroom-based resource for practical investigation of the technology and engineering behind modern automated systems. Users can select from a range of prepared demonstration programs to explore the design and logic used to program automated systems.

Typical Practical Activities Include:

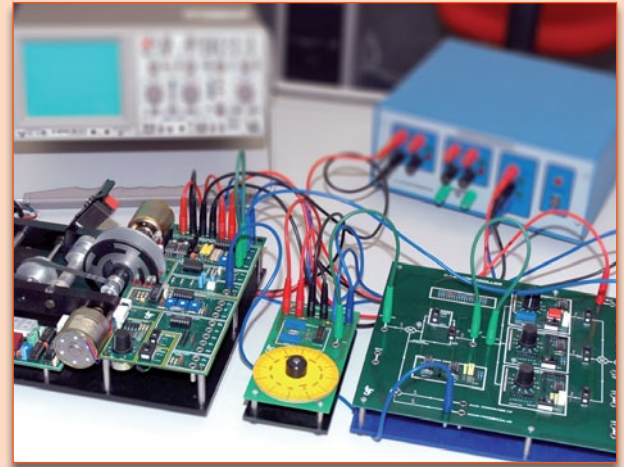
- Manual Control of a Robot
- Flowcharts and Programs
- Sensing, Decisions, and Counting
- Open and Closed Loop Control
- Transportation Around the Work-cell
- Manipulating Parts
- Industrial Robots
- Pre-programmed sequences
- Problem Solving

The Set Includes:

- Robotic Work-cell
 - Baseboard
 - Conveyor Belt
 - Infra-red Light Gate
 - Component Dispenser (Large and Small)
 - Component Bin
- Robotic Arm
- Power Supply and Accessory Kit
- USB to Parallel Adapter
- Robot Control Software

Order As: 240-01

Analogue/Digital Motor Control Teaching Set



This combined teaching set provides a complete solution for teaching analogue and digital motor control.

Typical Practical Activities Include:

- Describe the Main Elements of a PID Controller
- Investigate the data capture features of a digital storage oscilloscope
- Conduct simple step, ramp, and frequency response tests
- Demonstrate Proportional Speed control
- Outline the reasons for adding velocity feedback
- Demonstrate the change in following error when transient velocity feedback replaces velocity feedback
- Discuss the effects of noise when subjected to derivative action
- Demonstrate various combinations of PID control

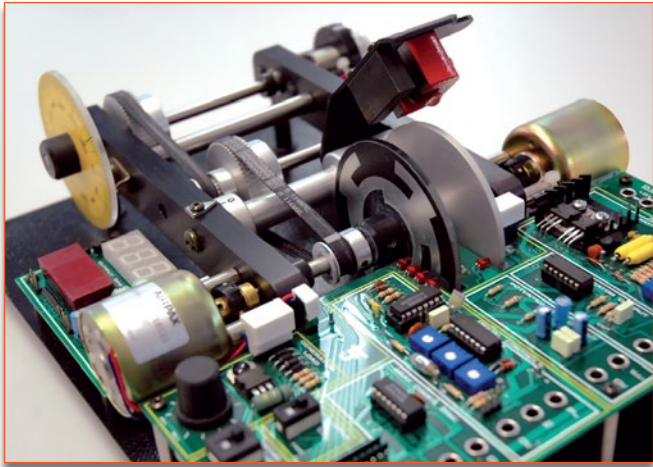
The Set Includes:

- [DC Motor Control Module \(207-15\)](#)
- [Command Potentiometer \(207-03\)](#)
- [PID Controller Module \(207-04\)](#)
- [Power Supply Unit \(207-40\)](#)
- Curriculum Manual Set (207-01)
- Virtual Control Laboratory (207-02)
- 4mm Connection Leads (207-05)

Order As: 207-00

Control and Instrumentation Hardware

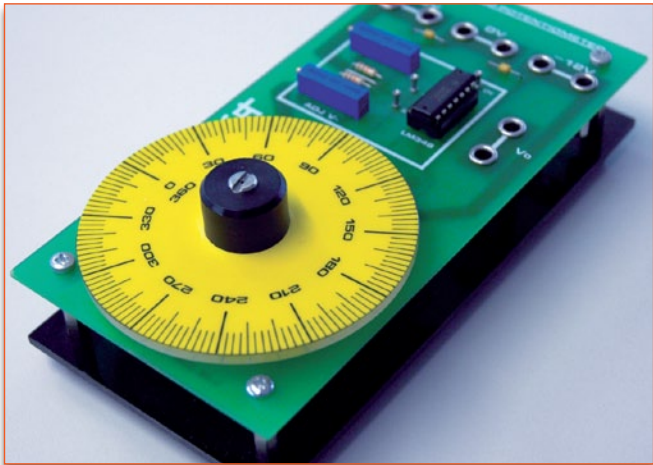
DC Motor Control Module



The DC Motor Control trainer has been designed to allow the user to perform numerous control experiments using either an analogue or a digital controller.

Order As: 207-15

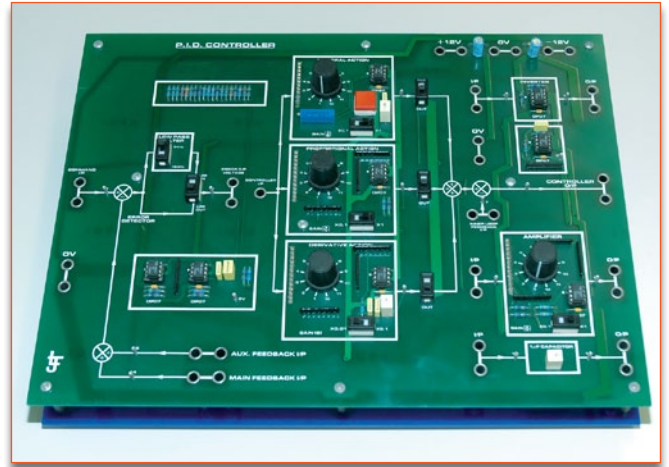
Command Potentiometer



This module provides a precision command potentiometer mounted on a board. It features a 360-degree precision, rotary potentiometer with a large calibrated protractor disc mounted on its shaft.

Order As: 207-03

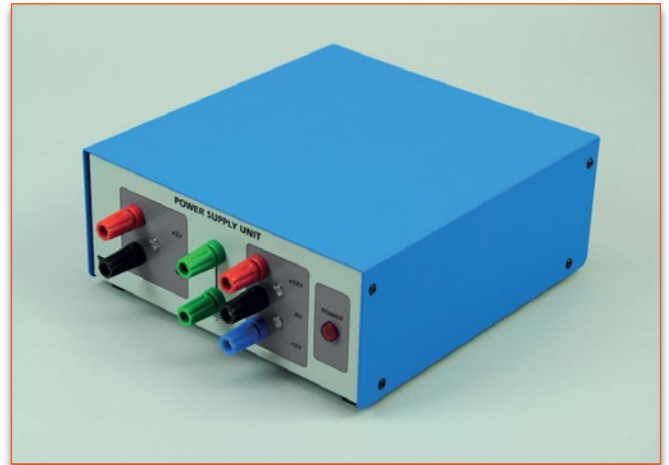
PID Controller Module



This is an analogue control system that allows the investigation of three-term control actions. It can be configured in conventional servo or process modes. The module is used to provide a PID control device for the DC Motor Control Module.

Order As: 207-04

Power Supply Unit



This power supply features fixed power outputs that are all isolated, floating from ground. Overload protection with LED indication is provided on all rails, with transient suppression being fitted to both 5V rails.

This unit provides the power requirements for the DC Motor Control Module.

Order As: 207-40

Electronic Engineering - Introductory Electronics Hardware

Electronic Circuits Trainer



This STEM learning resource has been designed to provide practical real world problem solving tasks and activities within the classroom or lab environment. These activities provide an engaging approach that helps teachers show contextualised linkages between Science, Technology, Engineering, and Mathematics.

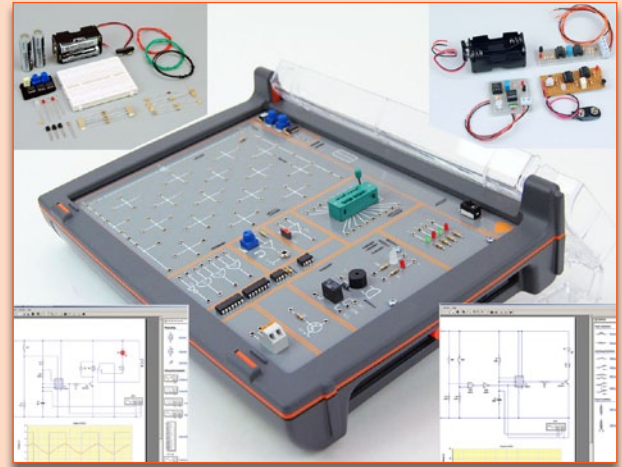
The Electronic Circuits hardware and resource packs can be used for class demonstrations as well as offering student activities either individually or in small groups. The equipment included will quickly turn any classroom into an electronics laboratory.

Typical Topics and Projects Include:

- Lamp Circuit
- Polarity Tester
- LED Lamp Circuit
- Automatic Light Circuit
- Improved Automatic Light Circuit
- Flashing Doorbell
- Lift Door Controller
- AC to DC Converter
- Baby Alarm
- Road Crossing Controller

Order As: 450-01

Electronic Circuits Trainer Teaching Set



The Electronic Circuits hardware and resource packs can be used for class demonstrations as well as offering student activities either individually or in small groups.

The equipment included will quickly turn any classroom into an electronics laboratory.

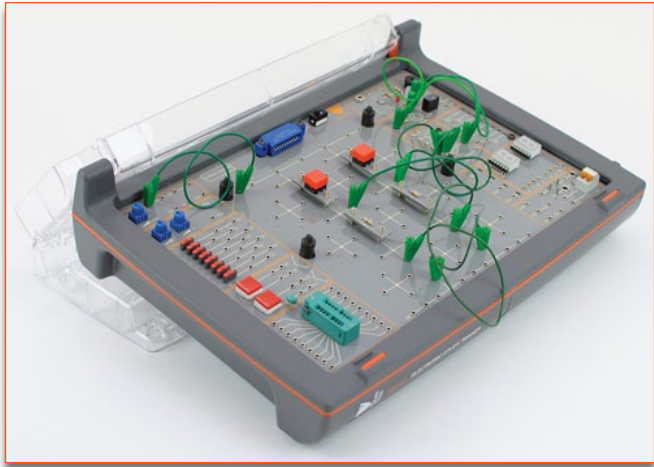
The set is configured for up to 24 students and includes:

- Electronic Circuits Hardware Pack x 1 (450-01)
 - Electronics patching board
 - Mounted component set
 - Digital multimeter
 - Connection lead set
 - Power supply
- Electronic Circuits Kit x 12 (450-02)
 - Breadboard
 - Component Kit
 - Container
- Electronic Circuits Class Consumables Pack x 1 (450-03)
 - PCB projects kit x 24
 - Projects component kit
 - Container
- Circuit Design and Simulation Software (Initial 5 User) x 1 (450-04)
- Circuit Design and Simulation Software (Additional 5 User) x 4 (450-05)

Order As: 450-01

Electronic Engineering - Core Electronics Hardware

Electronics Study Trainer



This trainer is part of the Core Electronics series. It allows the practical study of a wide range of electronics subjects, including DC and AC circuits, electrical networks, semiconductors, logic gates and fault-finding techniques.

The unique design of the trainer includes a heavy-duty casing with transparent protective cover. When in use, the cover folds back to provide an angled support for the unit. With the cover closed, trainers become stackable for easy storage.

A range of optional experiment cards may be plugged into the trainer to address further subject areas, including electronic systems, transistor amplifiers, linear and digital systems, telecommunications and microprocessors.

Devices On-board Trainer:

- Experiment Card Mounting Area
- Eight Logic Sources
- Two De-bounced Press Switches
- Slow and Fast Range Clock
- Two Inverting Buffers
- Buzzer
- Amplifier and Loudspeaker
- Eight Logic Monitors
- Two Seven Segment Displays
- Two Relays
- Three Variable Resistors
- +5V, -12V, +12V Power Supplies
- Switched Faults
- Three Remote Sensor Inputs

Order As: 320-00

Core Electronics - Hardware Packs

This STEM learning resource has been designed to provide practical real world problem solving tasks and activities within the classroom or lab environment.

These activities provide an engaging approach that helps teachers show contextualised linkages between Science, Technology, Engineering, and Mathematics.

This range of electronics teaching resources has been designed to allow any space to be turned into an electronics laboratory to support a wide range of engineering and technology based courses.

The Electronics Study Trainer contains the input, process and output devices, along with fault insertion switches for troubleshooting tasks.

An extensive library of Experiment Cards is available to be connected to the Electronics Study Trainer to teach specific elements of electronic circuits and systems.

The following Hardware Pack are Available:

- **Electronic Systems**
- **Diodes and Transistors**
- **Transistor Amplifiers**
- **Operational Amplifiers**
- **Analogue Integrated Circuits**
- **Combinational Logic**
- **Sequential Logic**
- **A/D-D/A Digital Systems**
- **Encoder/Decoder Digital Systems**
- **Multiplexer/Demultiplexer Digital Systems**
- **Electronic Communications**
- **PIC Programmer and Applications**

Electronic Engineering - Core Electronics Hardware

Core Electronics Workstation



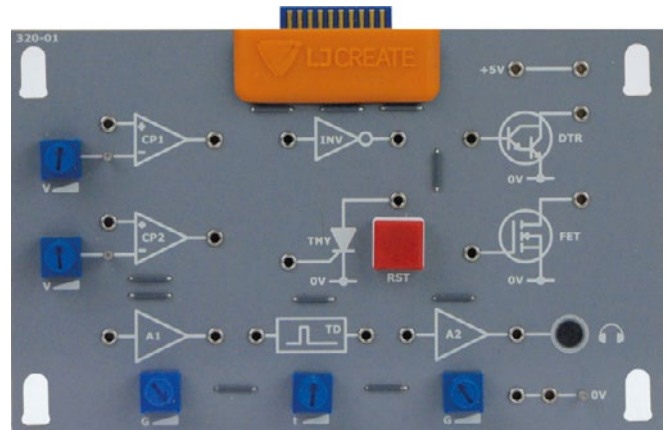
The Core Electronics series allows the practical study of a wide range of electronics subjects, including DC and AC circuits, semiconductors, analog and digital systems, microcontrollers and telecommunications.

The series comprises an Electronics Study Trainer with Component Set and the following plug-in Experiment Cards:

- **Electronic Systems (320-01)**
- **Diodes and Transistors (320-21)**
- **Transistor Amplifiers (320-22)**
- **Operational Amplifiers (320-31)**
- **Analogue Integrated Circuits (320-32)**
- **Combinational Logic (320-41)**
- **Sequential Logic (320-42)**
- **A/D-D/A Digital Systems (320-43)**
- **Encoder/Decoder Digital Systems (320-44)**
- **Multiplexer/Demultiplexer Digital Systems (320-45)**
- **Electronic Communications (320-51)**
- **PIC Programmer and Applications (320-61)**

Order As: 450-01

Electronics Systems

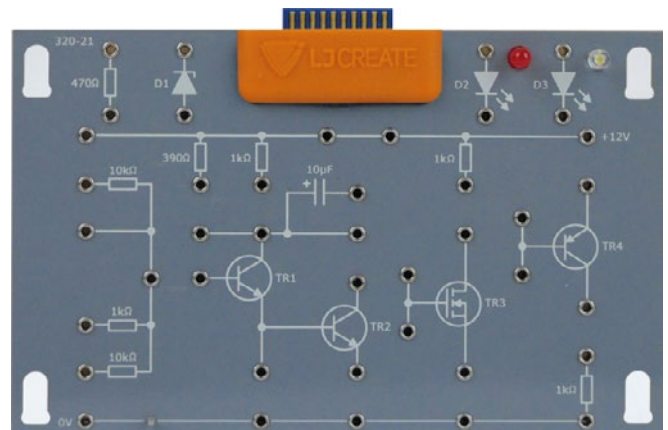


Practical Tasks Include the Following:

- Darlington Pair and FET investigation
- Thyristor investigation
- Automatic lighting system project
- Baby alarm system project
- Intruder and fire alarm system project
- Testing and fault-finding

Order As: 320-01

Diodes and Transistors



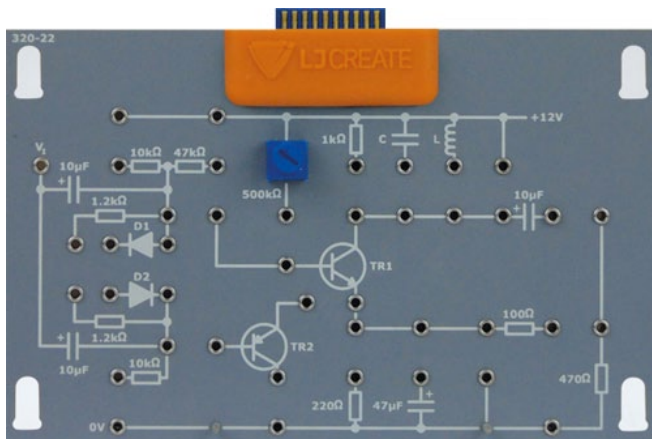
Practical Tasks Include the Following:

- Voltage Stabilisation using a zener diode
- PNP transistor switch
- NPN transistor as a voltage amplifier
- FET operation
- Testing and fault-finding diode and transistor circuits

Order As: 320-21

Electronic Engineering - Core Electronics Hardware

Transistor Amplifiers

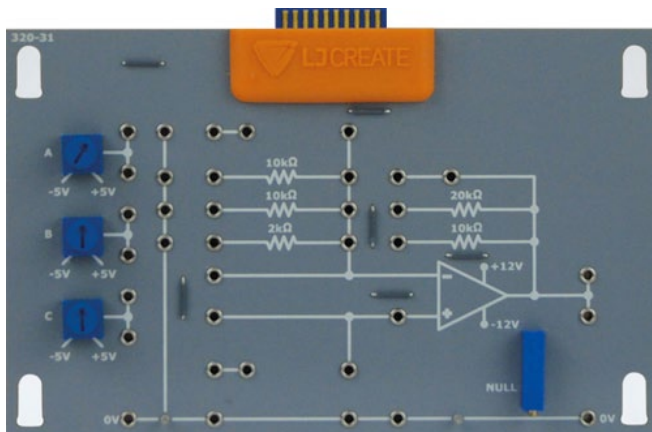


Practical Tasks Include the Following:

- Build and test a Class A/B transistor amplifier
- Investigate crossover distortion
- Build and test a Class AB/C transistor amplifier
- Effects of feedback in a transistor amplifier circuit
- Fault-finding transistor amplifier circuits

Order As: 320-22

Operational Amplifiers

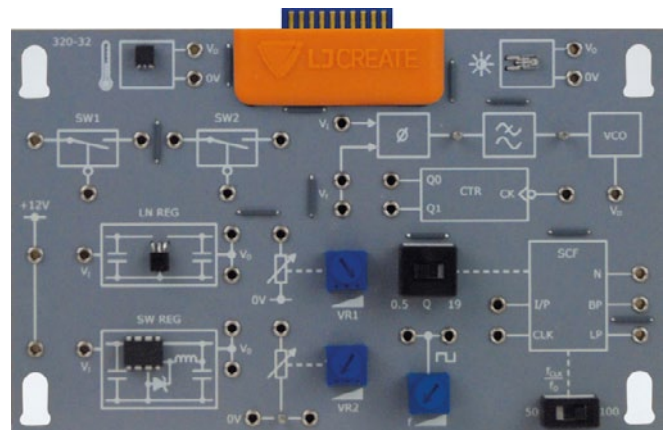


Practical Tasks Include the Following:

- Investigating a voltage comparator circuit
- Building and testing an inverting amplifier
- Building and testing a non-inverting amplifier
- High Frequency Performance of an Operational Amplifier
- Fault-finding operational amplifier circuits

Order As: 320-31

Analogue Integrated Circuits

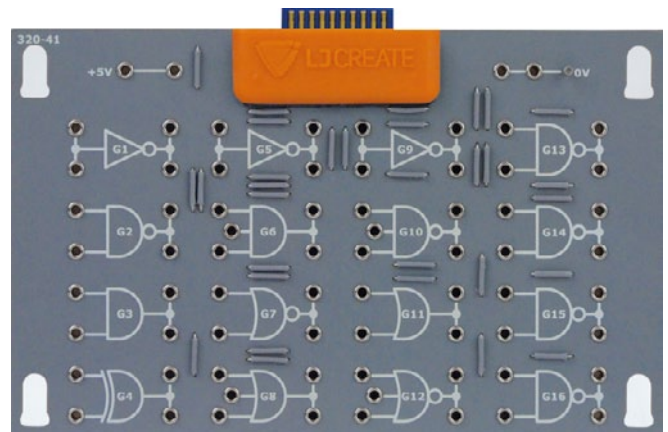


Practical Tasks Include the Following:

- Investigating IC sensors
- Comparing linear and switch mode voltage regulators
- Testing a switched capacitor filter
- Using analogue switches
- Fault-finding analogue integrated circuits

Order As: 320-32

Combinational Logic



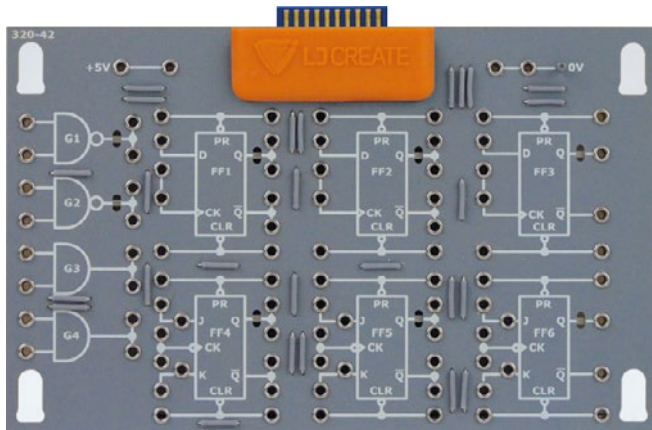
Practical Tasks Include the Following:

- Investigating logic gates
- Constructing truth tables
- Building EXOR gates from other gates
- Building a quiz game circuit
- Testing and fault-finding combinational logic systems

Order As: 320-41

Electronic Engineering - Core Electronics Hardware

Sequential Logic

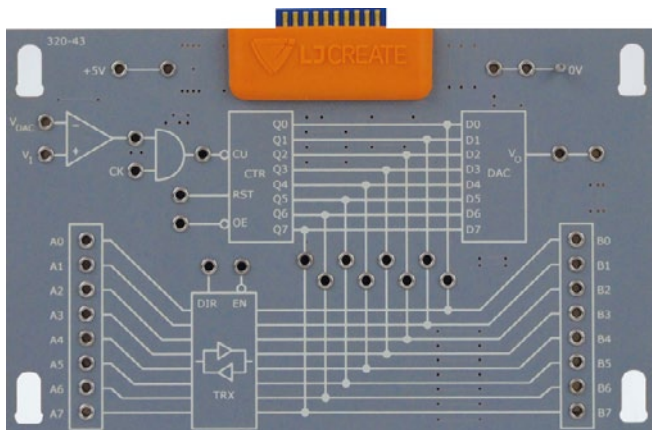


Practical Tasks Include the Following:

- Investigating a D-type flip-flop
- Investigating a J-K flip-flop
- Binary counter operation
- Frequency division
- Shift register and Ring counter operation
- Testing and fault-finding sequential logic systems

Order As: 320-42

A/D-D/A Digital Systems

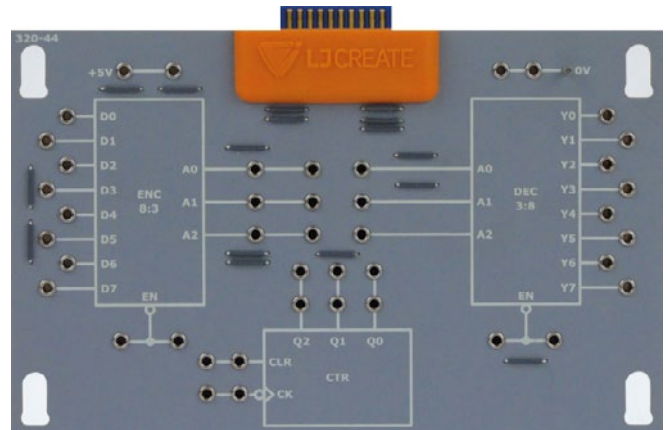


Practical Tasks Include the Following:

- Investigating a D/A converter
- Building and testing an A/D converter
- Tri-state devices and data access
- Testing and fault-finding A/D and D/A systems

Order As: 320-43

Encoder/Decoder Digital Systems

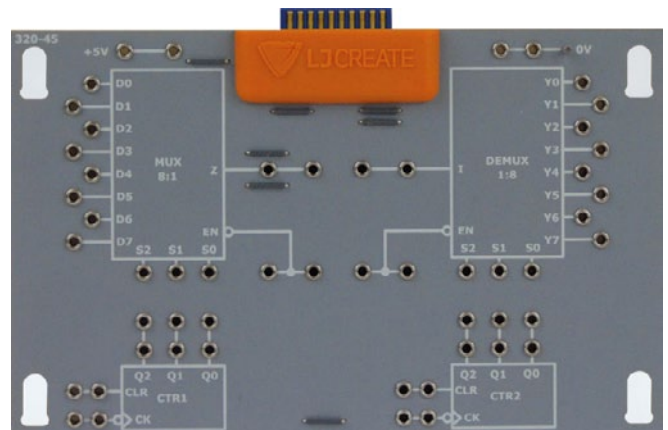


Practical Tasks Include the Following:

- Investigating a digital encoder
- Decoding the output from a binary counter
- Building and testing an encoder-decoder system
- Fault-finding an encoder-decoder system

Order As: 320-44

Multiplexer/Demultiplexer Digital Systems



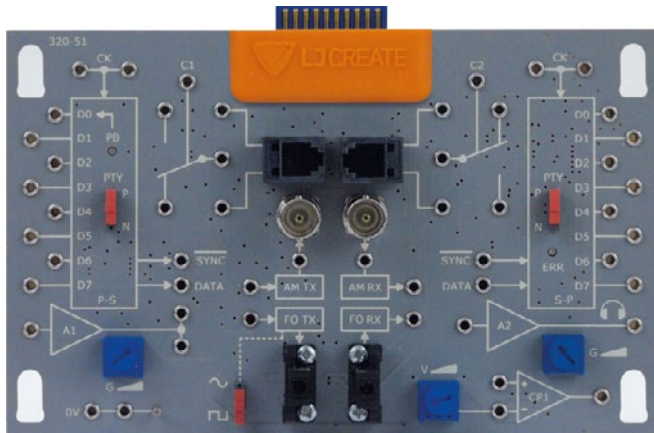
Practical Tasks Include the Following:

- Investigating a digital multiplexer
- Scanning multiplexer inputs using a binary counter
- Building and testing a multiplexer/demultiplexer system
- Clocking and synchronization
- Fault-finding multiplexer/demultiplexer systems

Order As: 320-45

Electronic Engineering - Core Electronics Hardware

Electronic Communications

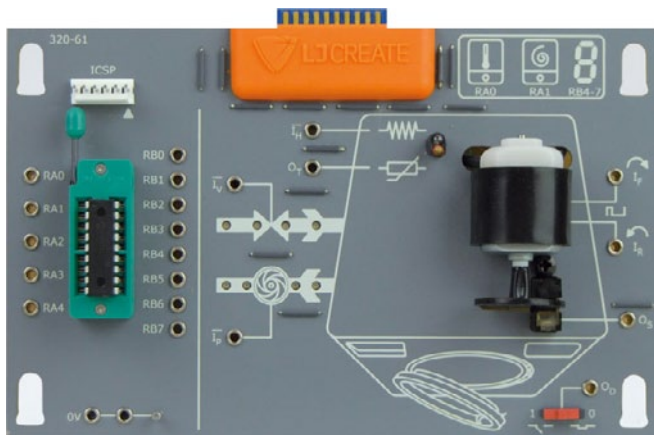


Practical Tasks Include the Following:

- AM transmission
- Optical and Digital data transmission
- Simplex and duplex transmission
- Transmission protocols
- Handshaking and flow control
- Fault-finding electronic systems

Order As: 320-51

PIC Programmer and Applications

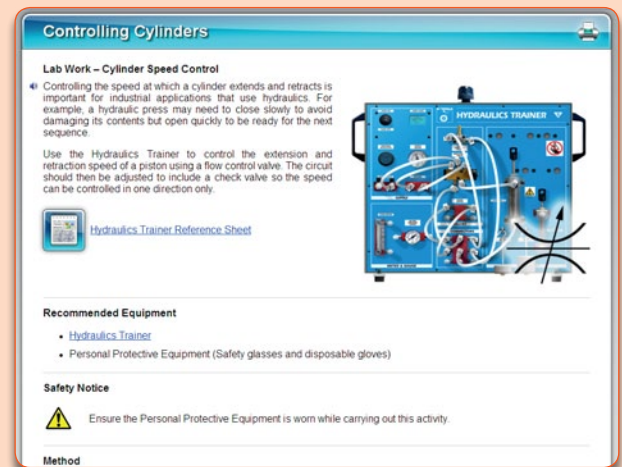


Practical Tasks Include the Following:

- Investigating sensors and actuators
- Controlling I/O port lines
- Performing arithmetic and logical operations
- Investigating branches and jumps
- Using subroutines
- Controlling motor direction and speed
- Motor speed control with feedback

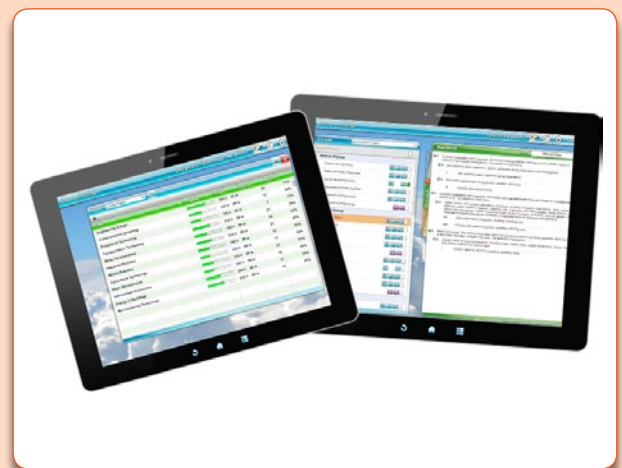
Order As: 320-61

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