Online Library

ENGINEERING AND VEHICLE REPAIR LESSONS

LJ CREATE™
Learning for life

- Easy to use
- Over **7,000** interactive lessons
- Engineering/Auto/Science/Academic Support
- Courses aligned to qualification objectives for **T-Levels, City & Guilds, BTECs, IMI** and more...
- Site license for thousands of students
- Full-function Learning Management System
- Platform independent: Windows, IOS, Tablet, Mobile Device
- Free online training and support
- Instructor Presentations/Student Investigations/Assessments
- Import student groups or have them self-register
- Over **250,000 students** registered

Student learning experience is based around over 100 on-screen interactive simulators. System is platform independent.

Mobile devices can be used to watch/hear presentations, complete assessments and interact during class presentations
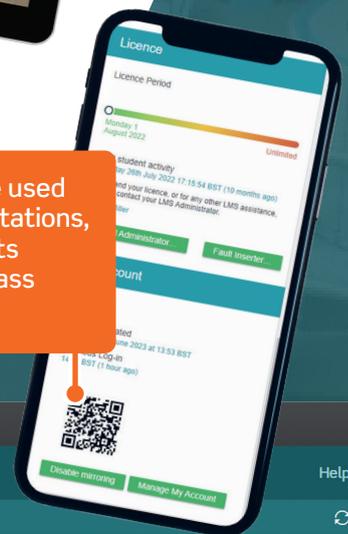
Aligned or custom courses

Simple, hierarchical class structure

Hundreds of report formats available

Thousands of lessons

Import or create lessons
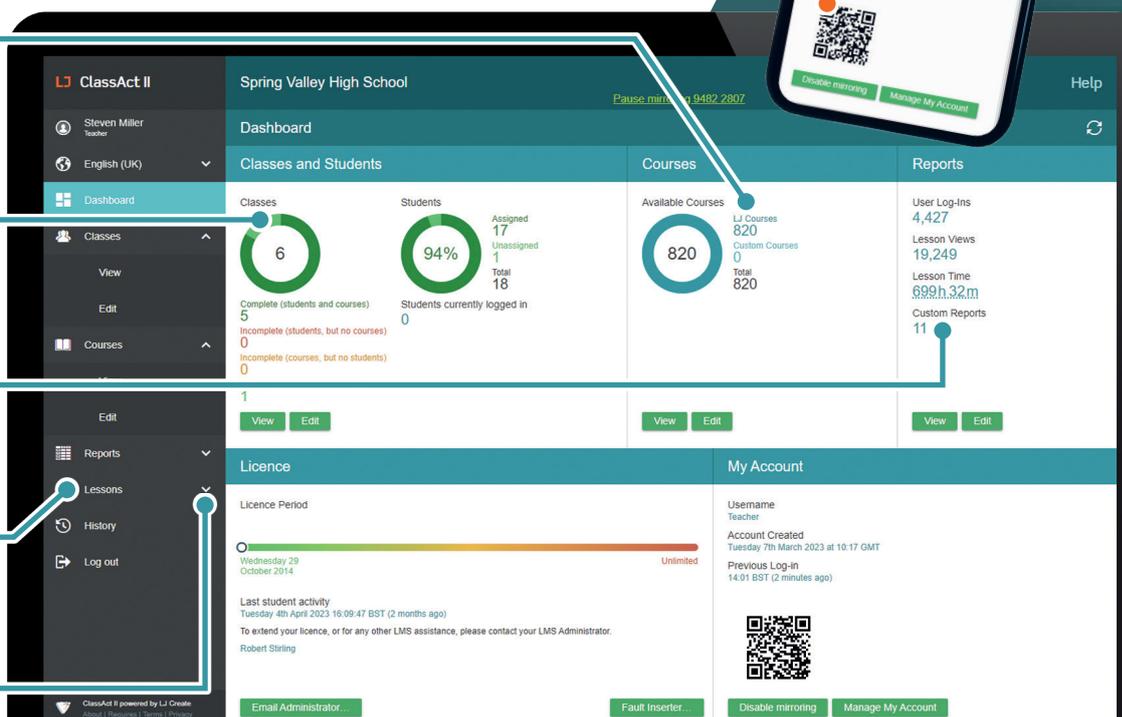
# Engineering Library (4,000 Lessons)

Topics:

- Safety and Tools
- Engineering Design
- Mechanical Systems
- Fluid Power
- Materials Engineering
- Engineering Drawing
- Green Technologies
- Manufacturing Engineering
- Machine and Instrument Engineering
- Inspection, Maintenance and Quality Management
- Control Systems
- Industrial Control - Programmable Control Systems
- Electrical Engineering
- Electronic Systems
- Circuit Construction and Testing
- DC Circuits
- Electrical Networks
- AC Circuits
- Magnetism and Electromagnetism
- Semiconductors
- Linear Electronics
- Power Electronics
- Digital Electronics
- Telecommunications
- Microprocessors
- Avionics
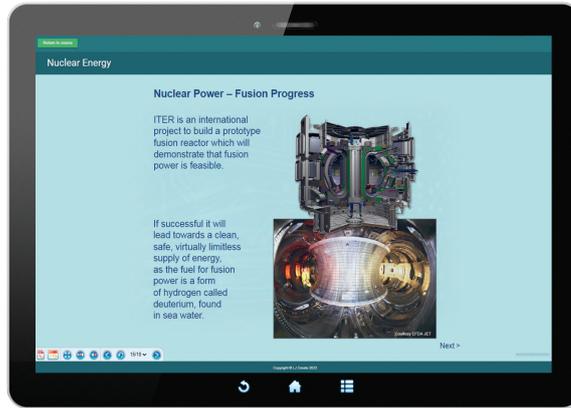
**COURSES ALIGNED TO CITY & GUILDS, BTEC AND T-LEVEL QUALIFICATION OBJECTIVES**

Qualifications filtered by learning objective
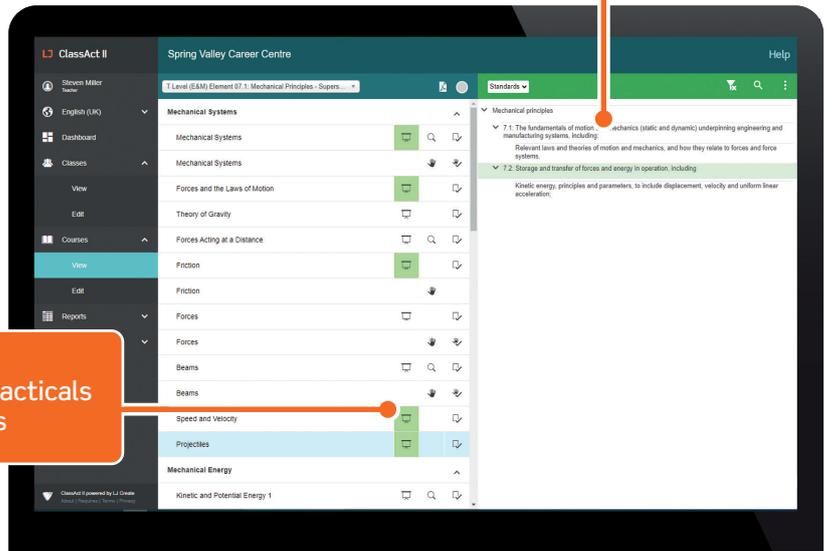
Presentations, Investigations, Practicals and Assessments

Contains many engineering applications, including:
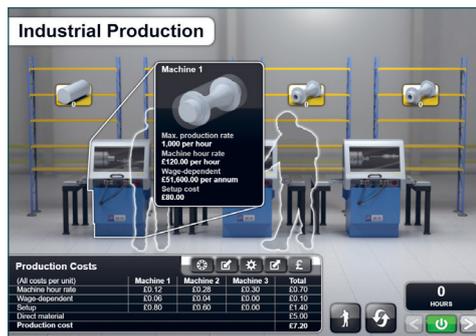
- Industrial production application
- Virtual electrical circuits trainer
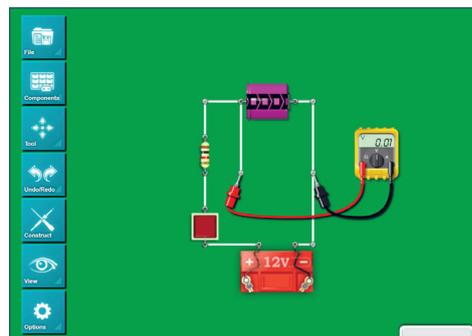
INSTRUCTOR FUNCTIONS:

- Create Classes/Groups
- Register Students
- Create Custom Courses
- Preview Lessons
- Filter by Qualification and Learning Objective
- Run Reports
- Create or Import Lessons
- Front of Class Interactive Presentations

Vehicle Repair Library (4,000 Lessons)

Topics:

- Automotive Workshop and Safety
- Engine Repair
- Fuel and Emissions
- Auto Electrical Fundamentals
- Automotive Lighting
- Automotive Starting and Charging
- Ignition Systems
- Hybrid Vehicle Technology
- EV Battery Operation
- EV Traction Motors
- EV Charging Systems
- Networked Systems
- CAN Bus Auxiliary Systems
- Brake Systems
- Suspension
- Steering
- Manual Drive Trains and Axles
- Automatic Transmission and Transaxle
- Heating and Air Conditioning
- Passenger Safety Systems
- Engine Management and Control
- Heavy Vehicle Systems
- Land Cruiser Complete Vehicle Systems
- Dynamometers
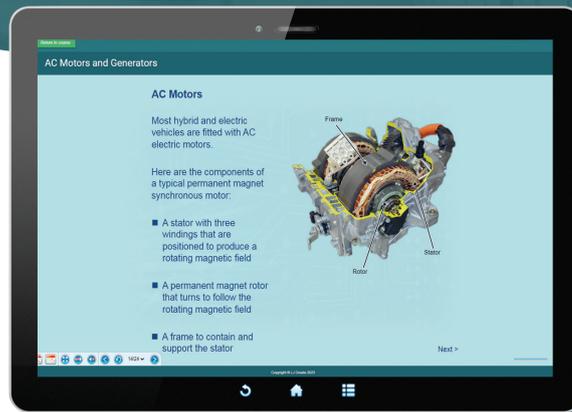
Realistic on-screen troubleshooting

COURSES ALIGNED TO **IMI AND CITY & GUILDS** QUALIFICATION OBJECTIVES

Contains many automotive applications, including:

- Diesel engine explorer
- Virtual automotive electrics trainer

STUDENT FUNCTIONS:

- Review Presentations with Audio (Laptop/Tablet/Phone)
- Run Interactive Applications
- Complete Assignments
- Take Assessments
- Interact with Class Presentations with Mobile Device

Science and Academic
Support Library (1,500 Lessons)

Topics:

- Engineering Mathematics
- English Language Skills
- Workplace Problem Solving
- Information Technology
- Business Skills
- Freight Logistics
- Properties of Matter
- Forces and Motion
- Energy
- Electricity and Magnetism
- Waves and Vibration
- Nuclear Physics
- Chemical Structure and Bonding
- Chemical Reactions
- Life Science
- The Living World
- Anatomy
- Evolution and Genetics
- Biochemistry and Cell Biology
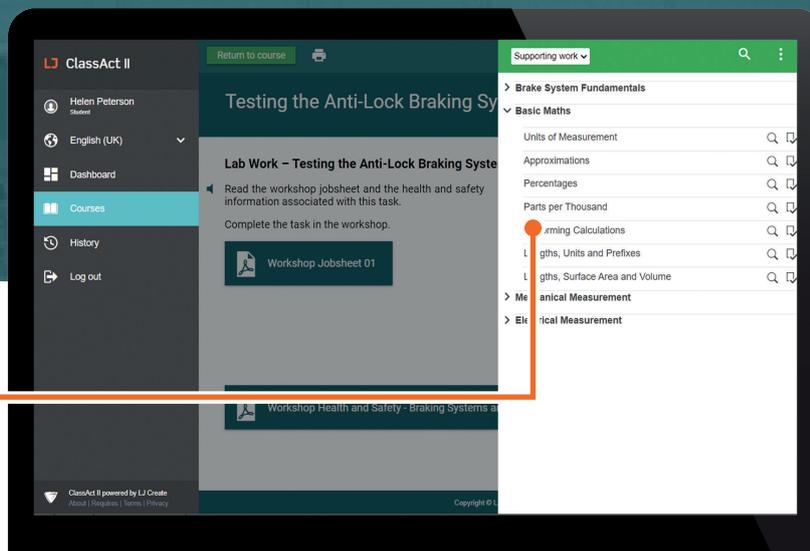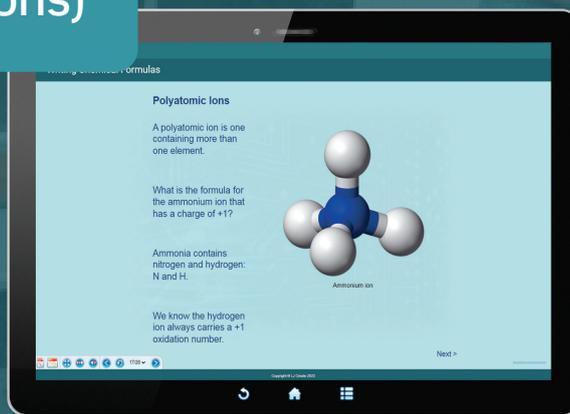
Lessons added to courses as support instruction

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

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