VEX CTE

Workforce Readiness in the Classroom

AGES 14+

Programmable **6-Axis Robotic Arm**

Arm maximum reach: **335 mm**
Platform size: **638 x 333 mm**

CLASSROOM COMPETITION

You can code CTE with

VEX CODE

Code with **Blocks Python**, and **C++**
Software available at no cost
Laptop not included

Hands-on Classroom Solution

Develop crucial career skills in your classroom with CTE!

With the VEX CTE Workcell, designed for **Technical and Vocational Education and Training (TVET)**, students gain hands-on experience designing and coding a realistic workcell with a robotic arm, conveyors, and pneumatics. Teach industrial robotics with real-life manufacturing concepts like material handling and layout optimisation.

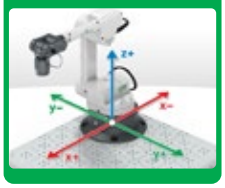
Curriculum Linked Resources

All curricular resources are aligned to educational standards. From STEM Lab Units, your online teacher's manual, to Activities designed for independent student use – we offer the support you need to teach with confidence.

Free Curriculum Included

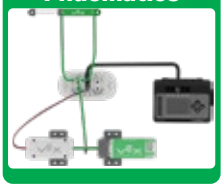
Lessons cover essential TVET learning, introducing learners to the foundations of understanding and coding a 6-axis robot arm. Bring workplace, industry standard learning to life or integrate into core subjects like Computing or Engineering - our curriculum takes the guesswork out of implementation.

Computational Thinking
Cartesian System



Coding
Absolute vs Relative

Engineering
Understanding Pnuematics



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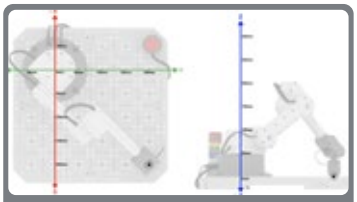
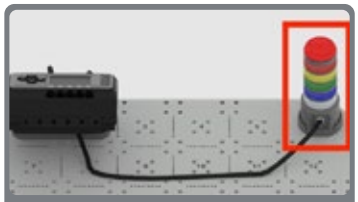
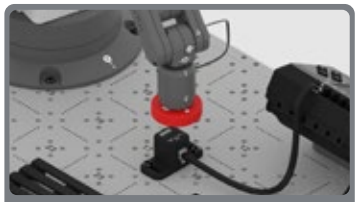
Bring Industry Learning to Your Classroom

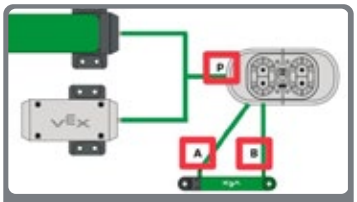

Learn the Cartesian System

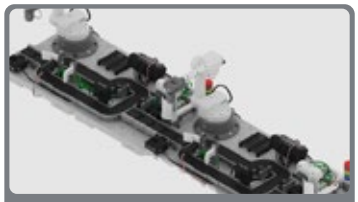
Introduction to Workcells

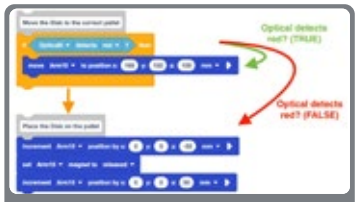

Safety Proceedures


Integrate Optical Sensors

Utilising Conveyors


Understanding Pneumatics


Cooperative Systems


18+ units to kickstart industry learning in the classroom!

Free Educational Resources

teachCTE.vex.com offers a hub of resources to get started with, and return to over time as you continue on your STEM teaching journey.

pd.vex.com has free, online, self-paced **Educator Certification,** which will guide you through the basics of using, coding and teaching with VEX CTE.

library.vex.com is an online encyclopedia of all things VEX, where you can search and find articles to answer questions, help troubleshoot, or learn more about using VEX CTE with your students.

educators.vex.com has instant answers to almost any question.

Realistic Use Case

Perform the same functions as real distribution centres using accurately replicated systems.

VEX PD+

VEX Professional Development Plus is a professional learning community for the ongoing PD you need, when you need it. **Connect with VEX Experts** and educators around the world!

£739.99 per year

SKU: 210-8353

VEX CTE Workcell

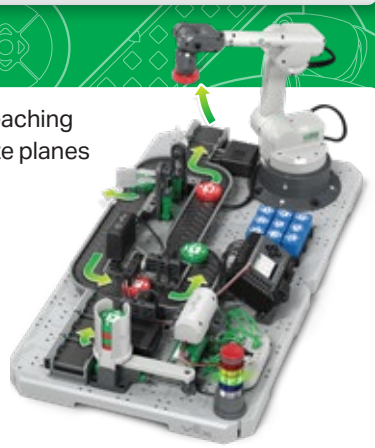
The VEX CTE Workcell kit is a construction system for a robotic arm, conveyors, and sensors. This teaching system introduces students to manufacturing concepts like construction, palletising, and coordinate planes to empower the manufacturing workforce of the future with a foundation of understanding.

VEX CTE Includes:

- **(1)** 6-Axis Robotic Arm
- **(1)** Robot Brain and Battery
- **(1)** CTE Pnuematics Set
- **(1)** Optical Sensor
- **(1)** Distance Sensor
- **(1)** Object Sensor
- **(2)** Magnetic and Tagged Objects
- **(1)** Signal Tower
- **(3)** Smart Motors (5.5W)
- **(12)** Smart Cables
- **(180+)** Material Transport & Handling Parts
- **(280+)** Hardware Parts

£1,699.49

SKU: 234-8952



The VEX Robotics Continuum of Classroom STEM Solutions

VEX 123 — Ages 4+
VEX GO — Ages 8+
VEX AIM — Ages 8+
VEX IQ — Ages 11+
VEX EXP — Ages 14+
VEX CTE — Ages 14+

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