

LearnMate™ Projects

Bring your technology program to a higher level!



When it comes to STEM (Science, Technology, Engineering and Mathematics) education for engineering and advanced manufacturing, LearnMate™ activity- and project-based learning is the vehicle of choice. Project-based learning engages students and enhances retention.

intelitek's **LearnMate™ projects** help you bring your technology program to a higher level by drawing upon multiple courses as resources to solve problems. Used in tandem with intelitek's renowned hardware and curriculum, LearnMate™ projects teach real-world application of engineering and manufacturing technologies.

LearnMate™ projects expose students to the same challenges they will face in industry: to work in teams, and engineer their own solutions to problems found in automated manufacturing environments.

These projects cover the complete engineering process:

- Clarify the design brief
- Research
- Generate alternative solutions
- Develop a solution
- Test the solution
- Modify and improve the solution

LearnMate™ projects encourage students to use their imagination to develop individual solutions, providing just the structure and guidance needed to ensure students' success.

intelitek's flexible program enables instructors to use the courseware in either a curriculum-driven or a project-driven approach. Using the curriculum-driven method, students focus on individual courses first, mastering prerequisite skills before applying them in LearnMate™ projects.

Using the project-driven approach, students choose a LearnMate™ project first. As they progress through the stages of the project, they draw upon the individual courses as resources for achieving the project goals.

Whatever method you choose, students master the skills required for STEM education.

P O W E R E D B Y

LearnMate™

- engaging scenarios
- individualized solutions
- quality equipment

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LearnMate™ Projects



Standards-based Curriculum

LearnMate™ projects are part of a comprehensive educational program.

Like all LearnMate™ courses, LearnMate™ Projects can be coupled with the LearnMate™ Management System (LMS) for complete program implementation.

With these complete tools, you can map and report on individual student progress towards national and state standards like ITEA, SCANS, STEM, National Science Atlas, as well as your local state standards.

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Courses

Quality Control

	SkillsUSA Robotics & Automation	SkillsUSA AMT 4-cavity Mold	SkillsUSA AMT Planetary Gear Box	Chess Set	Can Crusher	Car Elevator	CO2 Car	Pneumatic Feeder	Precision Measuring Device	Putter	Shape Sorter	Yo-Yo
Machine Vision & Quality Control											▲	
Mechanical Measurement & Quality Control		●	●		▲			▲	●	●	▲	●
Materials Testing		▲	▲		▲							

Mechanical Power Systems

Mechanisms			●			●						
Pneumatics Technology	▲				○			●			▲	▲
Hydraulics Technology					○	●						
Automatic Identification Systems								▲			▲	

Electrical Control

PLC Technology					●	●		●			●	▲
Sensor Technology	▲				●	●		●			●	▲
Electrical Systems	▲											

Design

CAD		●	●	▲		▲		▲	●	●	▲	●
CAM: Milling		●	●				●*	▲	●	●	▲	●
CAM: Turning				▲		▲		▲			▲	▲

Manufacturing & Automation

CNC Milling Technology		●	●			▲	●	▲	●	●	▲	●
CNC Turning Technology				●		▲		▲			▲	▲
Robotics & Materials Handling	●				●			▲			●	▲
Flexible Manufacturing Systems								▲				
Virtual CIM											▲	
Plastics Technology								▲			▲	●
Process Control												

Key

●	required	○	choose between two required courses
▲	optional (for advanced design solutions)		

* requires MasterCAM

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