




THE ADVANCED TECHNOLOGY CENTER

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OVERVIEW

- The Purpose of the Advanced Technology Center (ATC)
- Meeting the Needs of Industry in the Santa Clarita Valley
- The Future of Work: Highly Skilled Technicians
- Hands-on-Learning with the Technology of the Future
- Questions


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WHAT IS THE ATC?

- In 2017, the College conducted an environmental scan of Advanced Technologies in northern LA County with the assistance of the National Coalition of Advanced Technology Centers (NCATC).
- The scan concluded that the rapid growth in industrial automation and advanced technology, with its focus on "Industry 4.0", and an aging workforce population in these industries has created the urgent need for skilled workers in advanced technology sectors including: integrated advanced manufacturing/computerized machining (CNC), welding/material joining, robotic manufacturing and welding, and integrated personal fabrication.


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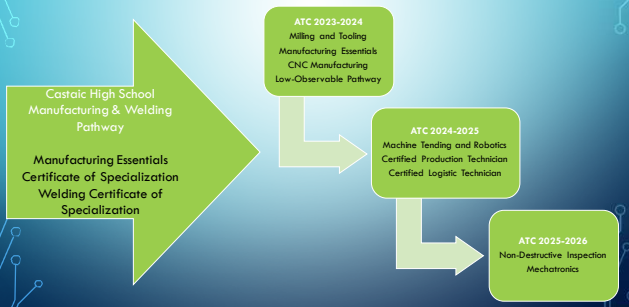
The need in this region is for employees with skills higher than those of a basic operator but less than an engineer.

... of the Canyons in collaboration with the William S. Hart Union High School District has a significant opportunity for growth in the advanced technology and manufacturing sector by expanding the curricular focus beyond basic operator skills to a focus on skill attainment that includes programming, diagnostics, and entry-level management skills. The jobs that result in this type of technical educational skill attainment are middle-skill level and provide wages for economic and social mobility.

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PREPARING STUDENTS FOR THE FUTURE OF WORK



Castaic High School
Manufacturing & Welding Pathway

Manufacturing Essentials
Certificate of Specialization
Welding Certificate of Specialization

ATC 2023-2024
Milling and Tooling
Manufacturing Essentials
CNC Manufacturing
Low-Observable Pathway

ATC 2024-2025
Machine Tending and Robotics
Certified Production Technician
Certified Logistic Technician

ATC 2025-2026
Non-Destructive Inspection
Mechatronics

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WORLD CLASS TECHNOLOGY



Technology Adoption

Workforce Competency

Competitive Advantage

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- The first credit pathway in **Milling and Tooling** began in **Winter Session 2024**. This is a focused pathway comprised of 7 five-week courses resulting in certificate completion by next fall (2024). Also, several industry recognized credentials will be available through NIMS (National Institute on Metalworking Skills) upon completion.
- Apprenticeship pathways are being developed.
- As the **Advanced Manufacturing** pathway is underway at **Castaic High School** this semester, students completing the pathway will be able to matriculate into the ATC in fall 2024.

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THE POWER OF PARTNERSHIPS

The ATC is a public/private partnership. Our partners, who include industry and our vendors, have been instrumental in the design of both the physical space and the curriculum.

Northrop Grumman	Forrest Machining	APT Manufacturing Solutions
B&B Manufacturing	The Attraction Services Company	
Glenair	Universal Studios	
Crissair	Sunvair	
Woodward	Klein Educational Partners	
ITT Aerospace	FANUC America	
TA Aerospace	Levit Technology	

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