

CARSON CITY SCHOOL DISTRICT

1402 West King Street

Carson City, Nevada

Thursday, February 19, 2015

**SPECIAL JOINT MEETING WITH THE
CARSON CITY SCHOOL DISTRICT BOARD TRUSTEES
AND THE
CARSON CITY BOARD OF SUPERVISORS**

LOCATION OF MEETING:

Sierra Room
Community Center
851 E. William Street
Carson City, Nevada

LATE MATERIAL

MEETING DATE 2/19/15

ITEM # Joint Meeting w/CCSD

Action may be taken on any agenda item unless noted “for discussion only.”

CALL TO ORDER – 6:00 P.M.

1. Flag Salute – **Steve Reynolds**

**Ron Swirczek, President
CCSD Board of Trustees
Mayor Robert Crowell**

2. Adoption of the Agenda, as submitted – **action item**.

Please Note: The Board reserves the right to take items in a different order to accomplish the business on the Agenda in the most efficient manner.

3. Welcoming Remarks

4. Public Comment – Comments may be made by members of the public on any matter within the authority of this Board. Although members of the Board may respond to questions and discuss issues raised during Public Comment, no action may be taken on such a matter until the matter is placed on an agenda for action at a meeting of the Board. In making Public Comment, speakers are asked to sign in, speak into the microphone at the podium, identify themselves for the record, respect any time limitations imposed, and not simply repeat comments made by others – **for discussion only**.

5. Informational Update on the Carson City Library’s new Educational Projects made available through the Library Services Technology Act (LSTA) Grant, including “Nevada’s Working Capital” and “On-Line and On-Time” – **for discussion only**.

**Sena Loyd
Tammy Westergard**

6. Informational update on the Jump Start College partnership between Carson City School District and Western Nevada College regarding both Academic and Career & Technical Education programs – **for discussion only**.

**Susan Keema
Kevin Edwards**

7. Informational update on the partnership between the Adams Hub and Carson City School District, including the new Entrepreneurs Network – **for discussion only**.

**Miya MacKenzie
Jeff Glass
Allen Gosselin
Richard Stokes
Ian Hill**

8. Informational Update on the Carson City Schools Foundation – **for discussion only**.

9. Presentation on Fiscal Impact due to Economic and Business Growth in the Region – **for discussion only.**

Andrew Feuling

10. Adjournment

A copy of the Agenda of this meeting has been posted before 9:00 AM on Friday, February 13, 2015, at the following locations: 1) Department of Education, 700 E. Fifth Street; 2) School Administration Office, 1402 W. King Street; 3) Carson City Public Library, 900 N. Roop Street; and 4) Carson City Manager's Office, 201 N. Carson Street.

Copies of supporting material may be requested from Mrs. Renae Cortez, Executive Administrative Assistant, at 1402 W. King Street, Carson City, NV 89703; by mail addressed to Mrs. Cortez at Carson City School District, Administrative Offices, P.O. Box 603, Carson City, NV 89702; by phone at (775) 283-2100 or by email to rcortez@carson.k12.nv.us. Copies of supporting material are available to the public at the District Office, 1402 W. King Street, Carson City, NV 89703, on the District website, www.carsoncityschools.com, and at the meeting on the date and place listed on the first page of this document.

Carson City School District is pleased to provide accommodations for individuals with disabilities. If you have a disability, please contact us at 775-283-2100, and we will provide assistance or accommodate you in any way that we possibly can.

[Watch the Board Meeting live at Access Carson City](#)

BOARD OF TRUSTEES MEETING
February 19, 2015
EXECUTIVE SUMMARY

5. Informational Update on the Carson City Library's new Educational Projects made available through the Library Services Technology Act (LSTA) Grant including "Nevada's Working Capital" and "On-Line and On-Time"

See attached documents provided by Mrs. Tammy Westergard, Deputy Director and Director of Development, Carson City Library.

6. Informational update on the Jump Start College partnership between Carson City School District and Western Nevada College regarding both Academic and Career & Technical Education programs

The Jump Start College program is a partnership between Western Nevada College (WNC) and local high schools. High achieving students take dual credit classes that meet both high school requirements and WNC degree requirements. These are transferable college classes. Most students from Carson City School District were enrolled in college classes with other students from their high school. Small class sizes promote student faculty communication. Support and guidance from teaching assistants created a culture of academic success. The presentation will include information on Automated & Industrial Systems and Construction Management.

7. Informational update on the partnership between the Adams Hub and Carson City School District, including the new Entrepreneurs Network

See attached documents provided by Ms. Miya MacKenzie, Hop & Mae Adams Foundation.

8. Informational Update on the Carson City Schools Foundation

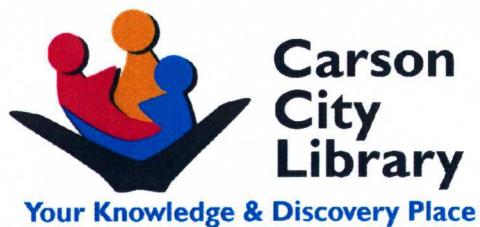
In June of 2003 the Carson City Schools Foundation was established. The Foundation has been formally maintained over the years, but has in essence been dormant. Recently, steps have been taken by the Board of Trustees to activate the Foundation and reestablish it as a viable system that can be used to help meet the needs of students and staff while also helping to meet some of the goals of the Strategic Plan.

The purpose of this agenda item is to inform the Community of the work that has been done to activate the Foundation, introduce the Directors of the Foundation, and explain the vision of the Foundation.

The Directors of the Foundation are as follows: Chairman, Ian Hill, local business owner; Mike Jackson, President of MicroManipulator; Bryton Lewis, Operations Manager for Abowd and Rose Financial Group; Heidi McFadden, RCM Realty Group; and Tom Keeton, Aerospace Industry-Communications (retired) .

9. Presentation on Fiscal Impact due to Economic and Business Growth in the Region

Construction on the Tesla Gigafactory is already underway and already having an impact on the local economy. Mr. Feuling will review the project and discuss estimated impacts from the construction of, equipment installation in, and production from the Gigafactory. The impact topics include the big picture job growth, specific industry growth and opportunity, new commercial and industrial space demands, housing demand, changes in the quantity and demographics of residents, wages, and demands on public services and education.



Carson City School Board / Carson City Board of Supervisors Joint Meeting
February 19, 2015 – 6:00 p.m. Carson City Community Center, Sierra Room

Informational Update on the Carson City Library's new Educational Projects made available through the Library Services Technology Act (LSTA) Grant, including "Nevada's Working Capital" and "On-Line and On-Time." (Sena Loyd and Tammy Westergard)

EXECUTIVE SUMMARY

Grant Project #1:

Nevada's Working Capital (FY'15) July 1, 2015 – June 30, 2016

According to the Nevada Manufacturers Association, many local manufacturers have difficulty finding and or retaining qualified and skilled employees proficient in the technical aspects of even entry level advanced manufacturing work. Often employers offer after hours remediation to employees in order to help them build a solid base of fundamental skills.

The Carson City Library is leading a unique opportunity to collaborate with Western Nevada College (WNC) and the Manufacturing Skills Institute (MSI), the 501(c)3 affiliate of the National Association of Manufacturers (NAM) and the Virginia Manufacturers Association (VMA). The project will help fill a workforce training need for area manufacturers through an apprenticeship program that fosters community-based learning in STEM skills, essential for advanced manufacturing jobs.

Three primary elements comprise the Nevada's Working Capital (NWC) program:

First, the public library as a central location that leverages its technology and special programs to expose patrons to design and experimentation, fostering focused but informal STEM learning and exposure to 3D printing.

Second, at the library patrons can access additional practice with specialize engineering software (SolidWorks), particularly helpful to existing manufacturers who want more for employees that is not necessarily for college credit, but is practice based and off the clock.

Third, patrons will have formal learning opportunities linked from the library to WNC *and at the library* that directly lead to a Manufacturing Technician 1 (MT1) certificate. A MT1 is a nationally portable and NAM endorsed credential demonstrating understanding of essential industry-wide

technical skills for existing and emerging employers in advanced manufacturing. See attached the Nevada Manufacturers Association letter of support from President Ray Bacon.

The Carson City Library is the first public library in America to offer this training opportunity making it accessible to a wider audience of adult job seekers not enrolled in school, but who are seeking training or re-training. Emphasis within the grant places priority for interested veterans.

Under the past four years of the Institute of Museum and Library Services leadership, the federal granting agency for the Library Services Technology Act (LSTA) resources, the call to action for libraries to be active in the U.S. workforce training need is well played in this grant. The Carson City Library has consistently leveraged opportunities to help residents "level up" skills in order to compete and succeed. Its current strategic plan, *Level Up(!) A strategic plan for learning* is a direct example of an output that supports the strategic goals of the Board of Supervisors and School Board's co-adopted strategic plans for education, adopted in 2013.

Grant Project #2:

Online and On Time (FY'14) July 1, 2014 – June 30, 2015

Progress on the project, currently underway, is discussed below within the following categories: infrastructure milestones**, outreach milestones and programming milestones and results to date. This logically follows the grant program as its requirements necessitated getting physical infrastructure and hardware in place, human resources in place, outreach and program detail and strategies in place and launch.

July – August:

- Out of School Time position was hired, Molly Walt started in the position July 1, 2014
- Meetings with Carson High School Freshman transitions teachers to determine lesson plans and portfolio projects goals and objectives. Project selected was a Public Service Announcement. Sample portfolio was not made, CCDS vendor choice was delayed, portfolio access was not there at this time in the schedule.
- Outreach materials and programs launched with CHS, and school year schedule were determined
- **All FF&E purchases and installation to transform the library auditorium space to accommodate this program in what's been named the "digitorium" was completed. This is not listed as a part of the grant as in-kind or match nor were any grant resources used to bring the digitorium space online. It was delivered by the Friends of the Carson City Library and the Carson City Library Foundation to accommodate this grant program and therefore is referenced for your information. ***Contextually, it is very relevant.***

August – September:

- All 2014-2015 CHS Freshmen tour the library Digitorium resources. Also in Sept, 4 separate classes were taught by the library's out-of-school-time coordinator to all freshmen at CHS about how to create a PSA.

- Freshmen students were confirmed to have an active Carson City premier library card during the first weeks of freshmen orientation, designed to let parents and students know about the library LSTA project. More than 600 info letters were distributed.

October – January:

- Students were given 7 weeks to write, create, and edit their PSA's. 560 freshmen created their public service announcements at the Carson City Library Digitorium using iMovie or Adobe Premiere. In groups varying from 3 – 5 students, more than 125 objects were produced.

OVERALL

Students created public service announcements on a range of topics that include persuasive messages about things like healthy eating to get good grades, or why it makes a difference to join a school club or team. Through the Library Services Technology Act (LSTA) *On Lind and On Time* program, 21st century learning is taking place beyond the classroom.

The PSA project has been very challenging for students. This is time consuming and tedious work. Students are getting great experience in not only using sophisticated technology, but they are also practicing persuasive techniques and developing coherent messages. Rebecca Kitchen, from KOLO Channel 8, Kirk Caraway, from Carson Now, Terri Vance, from the Nevada Appeal, Sena Loyd, Carson City Library Director and Tasha Fuson, Carson High School Principal reviewed twenty of the best submissions from the more than 150 projects created. The panel that included local professional journalists and broadcasters, judged the competition Tuesday, December 9. Two best PSA's will air at the Galaxy Theater for a one-month run in March on the big screens in Carson City. They are accessible now on the Carson City Library's web site here: <http://www.carsoncitylibrary.org/use/youth-services/digitorium>

Professional quality tools and hands on learning provides real world experience

During the last few weeks before the project was due, the library's capacity was tested. On a number of days more than one hundred students used every library computer equipped with the movie-making software.

The project helped youth understand firsthand the elements involved in video journalism and persuasive storytelling for a wide audience. During the weeks they developed the project they worked together to story-board ideas considered newsworthy.

"The reconfigured library spaces and resources are already making valuable contributions to our community and are playing an integral role in helping the Carson City School District implement its strategic plan. The district plan relies on community partners like the public library in order to help create project-based learning experiences. Librarian-educators have tremendous technology skills, experience and many have a teacher's heart," said Carson City School District Superintendent, Richard Stokes.

MOVING FORWARD TO THE END OF THE GRANT:

The project continues through the spring semester of the academic year with additional assignments coming from a number of teachers, in addition to freshmen faculty. CCSD at present does have its portfolio product up and students are now placing items in it. The PSA's will be added since the portfolio was not actually online when they were produced earlier in the school year.

Library challenges include accommodating so many youth at once when projects are all due at the same time, moving forward for the spring adjustments will be made. Also, the library has had difficulty in saving work, having to format flash drives and acquiring drives with at least 16G storage. The solution was to purchase storage drives and integrate them into the collection for check out.

This initiative is building on long-standing and successful library programs with new programs and opportunities leveraged from added technology and growing partnerships. The programs are in line with what families would enjoy through expensive supplemental camps, and at the library these opportunities are free to all youth. Educators from the Carson City School District are engaged partners and the kids love it.

ATTACHMENTS:

- 1) Letter of Support from Nevada Manufacturing Association for the NWC grant
- 2) During the Interim_January_February_2015, a monthly newsletter of the Carson City Library



November 12, 2014

To Whom It May Concern:

The Nevada Manufacturers Association values the Manufacturing Technician Level 1 © (MT1) industry credential and would like its use expanded to grow the pipeline of skilled workers available to manufacturing and other advanced technology sectors in northern Nevada. Nevada is facing a manufacturing boom the Tesla/Panasonic project and other related operations. Today, I think the MT1 program fits closely to the needs of the 3000 roughly employee that Panasonic will need. The Tesla side is still a little less clear at this time, but likely some will fit. In addition, we have quite a few existing companies where we believe the program fits nicely as well.

The Manufacturing Skills Institute's (MSI) MT1 certification assesses and validates an individual's mastery of the twelve (12) technical skills standards required for production and production-related occupations in all manufacturing industries. The twelve critical technical skills certified are categorized in the following areas: (1) Math and Measurement, (2) Spatial Reasoning and Manufacturing Technology, and (3) Business Acumen and Quality. The MT1 program only trains to close measured skills gaps, as identified by the MT1 assessment, and can be completed by qualified candidates in 100 hours (max) of blended online and instructor-led learning.

In summary, the MT1 certificate program provides:

- A workforce pipeline capable of meeting the requirements of existing and emerging employers in advanced technology industries such as manufacturing;
- A customized fast-track pathway to stackable credentials for incumbent and new hires to pursue 21st Century career pathway to advanced technology industry careers; and
- Online and instructor-led training to address identified technical skill gaps.

Therefore, please accept this letter as recognition of the value of the MT1 credential and its ability to assist in the development of a skilled pipeline of workers for advanced technology industries in **the Sierra Region**.

Sincerely,

A blue ink signature of the name 'Ray Bacon'.

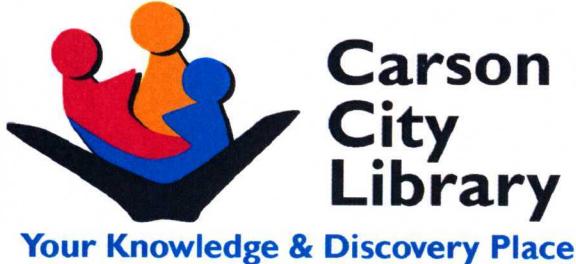
Ray Bacon, Executive Director
Nevada Manufacturers Association



During the Interim

January / February 2015

Issue #16



Sunny and smiling} Above CHS freshmen make a short walk to the library through Mills Park, beginning a regular trek for many students this school year. All freshmen are required to complete a video assignment using library tools.

MORE page 4

A shot at the BIG SCREEN

Carson City librarians have been full S.T.E.A.M (science, technology, engineering, arts and math) ahead this school year with enrichment activities. In particular, they are focused on outcomes of a long-term, project-based high school assignment requiring students to make a public service announcement (PSA) in a video format, aimed at fellow freshmen.

"We're about half way through our year-long LSTA grant collaboration with the CHS freshmen transitions faculty and students. Each week, freshmen students have had the chance to engage in a combination of digital literacy building, teamwork, problem solving and technology through this PSA project. They work together to plan-out, film and edit short videos using iMovie or Adobe Premiere software. In groups varying from 3 – 5 more than 125 objects were produced from over 550 students between late August and the end of December," said out-of-school-time coordinator for the library, Molly Walt.

The PSA school project partnership is a critical part of supporting the school district's objectives to boost digital literacy. It has been made possible, in part, from a federal Library Services Technology Act (LSTA) grant administered through the Nevada State Library and Archives, as well as from support of the Friends of the Library and Library Foundation.

"The response from the kids so far has been overwhelmingly positive and each week we have both new kids and previous participants asking to join in," said the library's Noe Barba-Garcia, an assistant to the project and not long ago himself a high school freshman "They were really excited about winning the contest!"

Rebecca Kitchen, from KOLO Channel 8, Kirk Caraway, from Carson Now, Terri Vance, from Nevada Photo Source, Sena Loyd, Carson City Library Director and Tasha Fuson, Carson High School Principal reviewed twenty of the best submissions in a competition for a chance to air the best PSA at the Galaxy Theater in Carson City. Library Trustee Sandy Foley will announce winning projects on February 19, at a joint meeting of the Carson City School District and the Carson City Board of Supervisors. The meeting will feature the outcomes of the L.S.T.A program to date.

MORE on page 4



Top: Young digital divas at the library. **Above:** L to R, Tammy Westergard and Sena Loyd defend LSTA grant to the State Council on Libraries and Literacy, CCSD's Richard Stokes and WNC's David Steiger in the back row.

NEW Library Website

Offers extended patron service

MORE page 2

LSTA Grants for FY '15

Nevada's Working Capital and Habits of Mind(Craft)

MORE page 2

Trustee Meetings Easy to View

Accessible through library YouTube Channel

MORE page 3

Staff See LEAN in action

All staff trip to Baker & Taylor

MORE page 3

During the Interim

Nevada's Working Capital, working to get good jobs is a shared responsibility

On June 4, 2014 in a "big idea" meeting with the State of Nevada Governor's Office of Economic Development's (GOED) Karsten Heise; Carson City School District (CCSD) Superintendent Richard Stokes; Western Nevada College's (WNC) David Steiger; Carson City Library leaders Sena Loyd, Director and Tammy Westergard, Deputy Director; area advanced manufacturing representative Sven Klatt from Vineburg Machining and others, GOED wanted to figure out how to launch an apprentice program kind of modeled after those used in Germany. With a working title called "learn and earn," the group talked about how to develop something that would train folks for beginning level (and more) advanced manufacturing jobs. Heise said the Governor was looking to pilot a program and ideally replicate it statewide.

By October the Carson City Library had conceived with WNC and CCSD a program that collaborates with WNC, the National Association of Manufacturers (NAM) and the School District to create an apprenticeship portal that fosters community-based learning in highly focused science, technology, engineering and mathematics (STEM) skills, essential for local manufacturing jobs. The program is named *Nevada's Working Capital* (NWC) and works with three primary elements:

First, the public library as a central location leverages its technology and special programs to expose patrons to design and experimentation, fostering focused but informal STEM learning that is expressly relevant to local manufacturers.

Second, at the library patrons can access additional practice, outside of school or work, with specialized engineering design software (SolidWorks) that is made available from WNC licenses not currently being used at WNC. WNC signage at the library will make it clear WNC is a key partner. This also provides library staff the opportunity to let program participants know about formal learning pathways at WNC. For high school students they will get exposure to and practice with the software in special library programs that also combine with 3D printing.

And third, library patrons and WNC students enrolled in certain WNC classes will have formal learning opportunities linked from the library to WNC that directly lead to a *Manufacturing Technician 1 (MT1)* certificate, a nationally portable and NAM endorsed credential demonstrating understanding of essential industry-wide technical skills for existing and emerging employers in advanced manufacturing industries.

In November of 2014, the Carson City Library applied for the LSTA grant proposing the NWC plan and seeking funding for it for one year. Of special note is the grant proposal's support letter from NAM's education partner recognizing the Carson City Library as *the first public library in America to offer this opportunity*.

On January 14, Loyd and Westergard defended the grant proposal to the State of Nevada Council on Libraries and Literacy. The proposal meets significant workforce training goals of the State Library, State Dept. of Education, GOED, CCSD, WNC and the Carson City Library. Rankings for all of the proposals are shown above - the NWC project hopes to begin July 1, 2015.

CARSON LIBRARY LAUNCHES NEW WEB SITE !

The Carson City Library announces the roll out of its new Web site, designed to engage with patrons and provide them with access to great online content. The site has been in a "soft" launch phase over the last month wherein patrons could still access the old site. The permanent transition is slated for the middle of February. "Our library has been the community center for technology for a number of years now and taking our Web site to the next level was our next step. I couldn't be happier," said Library Director, Sena Loyd. "Our new site is easy-on-the-eyes, engaging and customer focused. We want feedback and encourage folks to visit often online at www.carsoncitylibrary.org."

L.S.T.A FY '15 Grant Rankings

UNR, Special Collections	\$32,700	1
Pershing County Library	\$8,960	2
UNLV Leid Library	\$40,000	3
Mineral County Library	\$25,739	4
Henderson District Libraries	\$34,400	5
Sierra Nevada College Library	\$17,850	6
Carson City Library	\$82,902	7
Pershing County Schools	\$100,000	8
North Las Vegas Library District	\$97,600	9
LV-CCLD	\$95,000	10
Washoe County Library	\$70,100	11
Churchill County School Libraries	\$35,000	12
UNR Special Collections	\$64,582	13



Deal (!) L to R, Library Director Sena Loyd, School Superintendent, Richard Stokes, WNC's David Steiger and Deputy Library Director, Tammy Westergard at LSTA hearings, Jan. 14 at the Bryan Building, chatting after their collective grant was presented.

Library LSTA Mini Grant Ranked First

Building Habits of Mind (Craft) \$5,000

Building STEAM skills with young people crosswalks to the NWC program, and is the focus of the mini grant. For youth in 6th – 10th grade library MineCraft programs will require creativity and critical thinking as students engage in competitive activities possible with the software. No previous skill with Minecraft is required. Competitions will involve many learning journeys and culminate in building entire communities. 3D printing will also be a part of the experience where kids can "print" their ideas!

The “big screen” run of the PSA’s is scheduled at the Galaxy for the month of March.

The project is a direct example of the Trustees’ commitment to the library’s current blueprint for success - *Level Up (!) A strategic plan for learning_2014-2019*. This plan was co-adopted by the Carson City School Board and the Carson City Board of Supervisors in December of 2013 as part of these policy boards’ desire to coordinate education plans moving forward, and a superior example of institutional alignment over three different jurisdictions. The projects show what is possible for students with all stakeholders working together to achieve common goals.

Professional quality tools and hands on learning provides real world experience

During the last few weeks before the project was due, the library’s capacity was tested. On a number of days more than one hundred students used every library computer equipped with the movie-making software.

“My students gained valuable skills by working on the PSA project. They learned about working in a group and teamwork. They learned about time management skills. They had a huge learning curve in using the Mac equipment and how to use iMovie, and they learned about different clubs and sports and how to get more involved at Carson High School,” said freshmen teacher Jennifer Minifie. “I really enjoyed this project and the students did an amazing job. I can’t thank Molly Walt enough for all the mini lessons and for working with our students at the Carson Library’s Digitorium,” she continued.

“Initiatives are building on long-standing and successful library programs with new programs and opportunities leveraged from added technology and growing partnerships,” said Deputy Library Director, Tammy Westergard. “The quality of programs is in line with what families would enjoy through expensive supplemental programs, and at the library these opportunities are free to all youth. Educators from the Carson City School District are engaged partners and the kids love it,” she added.

A PACKED HOUSE: Below photos from the PSA project journey. Right students listen to Molly Walt describe the project ahead in the library’s digital space, the Digitorium, formerly the auditorium. Left, freshmen students get a tour of the second floor technology tools at the library.



During the Interim is produced monthly by the Carson City Library Marketing and Outreach division. Correspondence may be sent to twestergard@carson.org. Every effort has been made to avoid errors, misspellings and omissions. If a mistake has been made, please accept our apologies and contact us. No part of this publication may be used without written permission of the Carson City Library. 900 North Roop Street, Carson City, Nevada 89701



NEW ENTREPRENEUR NETWORK

Executive Summary

The New Entrepreneur Network (“New E”) is designed to educate and empower children and young adults in Carson City through enriching programs and activity focused on entrepreneurial training. New E Network is created and funded by the Hop & Mae Adams Foundation in partnership with the Boys & Girls Club of Western Nevada. This effort focusses on entrepreneurship, as it is anticipated, and proven in entrepreneurial training applications across the country, that children who are exposed to entrepreneurial training and working business models are more likely to graduate from high school, more likely to attend and complete post-secondary school and possess better employment skill sets resulting in higher compensation throughout their careers. New E is not only a program, but also a grassroots movement--a community shift to improve our economy and the application portion of our education system.

The ingredients for successful entrepreneurship training quell down to learning and practicing to be results-oriented, analytical problem solvers who are willing to work hard and stay focused. One of the most important qualities of an entrepreneur is character—trustworthy, dependable and engaged in creating solutions. The New E curriculums and their applications are designed to make business and entrepreneurial habits instinctively autonomic. New E will work to develop the character of the individual while creating a culture of entrepreneurship—what makes a great entrepreneur also makes a great employee and community member.

The New-E Network was developed after researching and reviewing successful and established youth entrepreneurship, career and application-focused curriculums and programs from across the country. New E Network consists of:

- **New E Club:** a semester-long curriculum-based commitment. Students will be able to receive credits (approved for high school, still pending for college), a certificate in entrepreneurship training, and eligibility to apply for employment at companies New E builds in Carson City.
- **New E Curriculum:** Instruct on entrepreneurship concepts in classrooms. Coordinate guest speakers who have careers that utilize information and skills gained in traditional school classes such as English, History, Math and more—help students appreciate the “applicability” of the subjects and career opportunities.
- **New E Biz:** Create, launch and grow successful businesses in Carson City. Youth will be involved in all aspects of the business and will gain valuable, paid work experience. Profits from the businesses will be donated back to the Boys & Girls Club of Western Nevada as well as other Carson City youth-based organizations.

New E Network is launching Spring Semester 2015. Below are a few program highlights to date:

- Advisory Committee: Key stake holders, including: Director of Race to the Top Grant for Carson High School, Boys & Girls Club of Western Nevada (BGCWN) Board of Director Member, Chief Professional Officer of BGCWN, Program Director of BGCWN, Deputy Chief Juvenile Probation Officer, College Instructor of Business at Western Nevada College, Principal of Eagle Valley Middle School, Dean of Carson Middle School, High School

Instructor of Business and Marketing @ Carson High, Instructor from Jobs for America's Graduates (JAG) at Pioneer High.

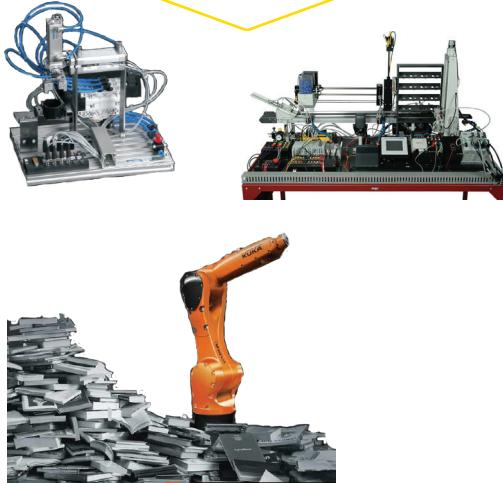
- We have been approved for students to receive credits at the High School level by participating in our curriculum in the New E Club.
- We serve as a guest teacher for the CTE program at Carson High School
 - We have combined our efforts with teachers and professors from Reno and UNR and added entrepreneurship as part of the class curriculum at Carson High School.
- We are working with the Carson City judges and probation department to design an entrepreneur training program to implement as part of their kids completing their probation.
- Our efforts have helped bring the Junior Achievement program to Carson City. It is being launched at Seeliger Elementary Spring 2015.
- We plan to open our first business within the next 60-90 days to employ Carson City youth and offer them business experience in everything from manufacturing to retail.

For more information, visit: newENetwork.com

About Hop & Mae Adams Foundation

Hop and Mae Adams Foundation was founded in 2008 to help the community of Carson City by providing learning, career and cultural opportunities for youth through seniors, helping local charities be successful and improving the economy of our region. Hop & Mae Adams Foundation is a charitable foundation which was the vision of Mae Adams who wanted to ensure her family's legacy included strong support for the Carson City community that had given them so much. The Foundation embraces Mae's convictions by providing tools to help people help themselves with the goal of assisting our wonderful community and focusing on the benefits of working together.

HANDS-ON LABS
FOR PROJECT
BASED LEARNING

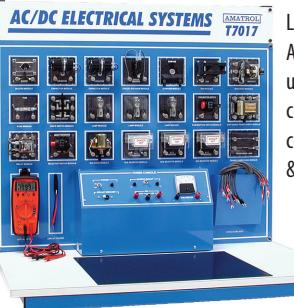


ELECTRONIC RELAY CONTROL UNIT

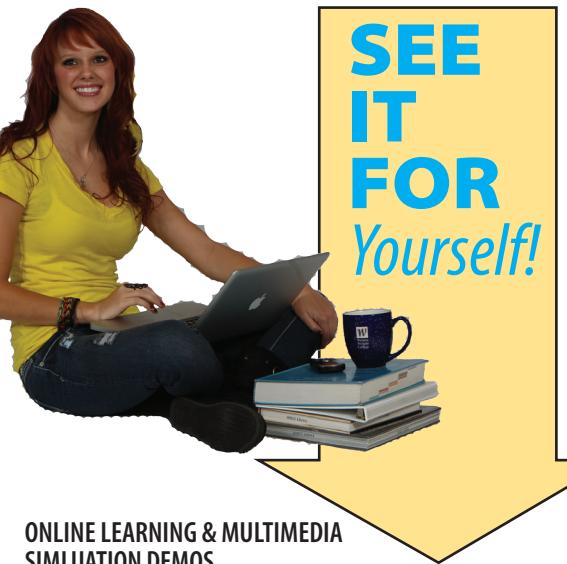


Learn control of electric
motor & pneumatic
systems & their industry
applications.

ELECTRONIC LEARNING SYSTEMS



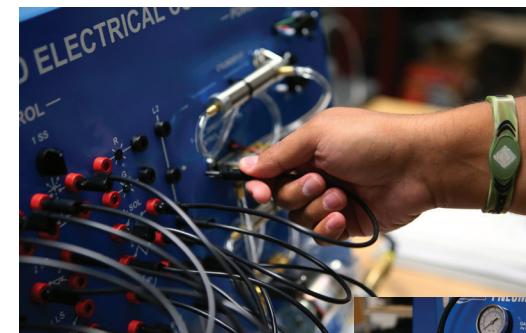
Learn fundamentals of
AC & DC electrical systems
used for power and
control in industry,
commercial, agricultural,
& residential applications.



ONLINE LEARNING & MULTIMEDIA SIMULATION DEMOS

- AIT 101
www.screencast.com/t/zU9kNRmZZb

- General Industrial & Automated Career Pathways
www.wnc.edu/career_pathways/



INFORMATION

Western Nevada College
Kevin Edwards
775-445-3241 • kevin.edwards@wnc.edu
www.wnc.edu/career_pathways/



WESTERN NEVADA COLLEGE

Manufacturing Courses for
High School Students

Automated & Industrial Systems



Earn up to 20 credits toward your
college degree while still in high school.

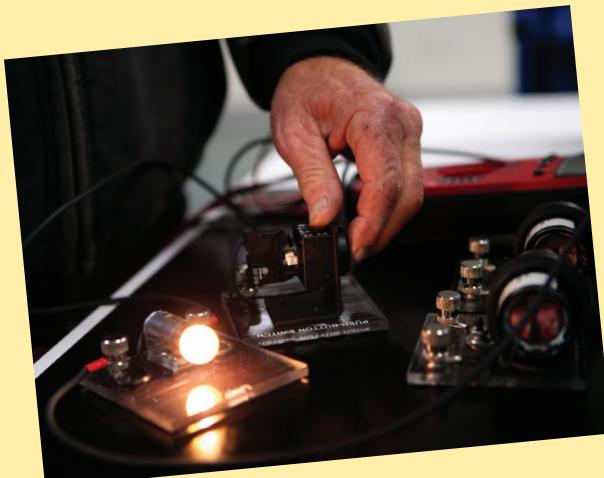


IMAGINE . . .

an automated assembly line: a large conveyor system moves unfinished parts down a line. Giant robotic welding arms bond different parts together, hydraulic lifts move the parts, and giant presses stamp the parts from flat sheets of steel.

All these complex machines require talented workers to install them and service them, to make sure they function properly. Today's automated workplace needs technicians with electrical, electronics and computer programming skills to repair sophisticated equipment.

WNC's two-year degree program in General Industrial & Automated Systems will provide good preparation for entering the workplace. According to the U.S. Bureau of Labor Statistics, the national median hourly wage for industrial machinery mechanics is \$20.99.



START NOW... Just \$50

in tuition per class for two college classes (AIT 101 & 121) in this sequence while in high school.

By enrolling while in high school, you are eligible for huge savings that are not available to traditional college students!

Learning includes:

- Online Multimedia Simulation
- Hands-on Training

The AIT 101 & 121 courses offer an online learning, multimedia simulation experience. Hands-on labs verify competency with the industry language and application.

BE IN DEMAND!
Learn Advanced Manufacturing

TODAY'S JOBS OFFER:

Estimated Annual Salary:

Electrical Engineers.....	\$85,920
Electronics Engineering Technicians.....	\$56,900
Electronics Repairers, Commercial & Industrial	\$52,320
Industrial Machinery Mechanics	\$46,270

COURSE SEQUENCING

FALL SEMESTER

8-11 am

AIT 101: Fundamentals of Applied Industrial Technology

Units (Credits): 4; (\$50, Online)

Explains the fundamental concepts of electricity used in many applications, especially control systems. Ohm's Law and Kirchhoff's voltage and current laws will be applied both in theory and through lab experiments. Mechanical concepts of basic levers and forces, friction and pulleys and gears are introduced, as well as their effects on a system. Covers fundamental operation of electric relay controls and explains basic logic circuits which are used to provide automated control of many types of machines. Simulated tools and test equipment are utilized.

AIT 155: Applied Industrial Technology Hands-On Lab

Units (Credits): 1-6; (Full Tuition, Face to Face)

Allows students of Applied Industrial Technology to use hands-on trainers and equipment for the study of various topics.

AIT 200: Applied Industrial Technology Projects

Units (Credits): 1-6; (Full Tuition, Face to Face)

Studies & develops hands-on special projects in Applied Industrial Technology.

SPRING SEMESTER

8-11 am

AIT 121: Electrical Control Systems

Units (Credits): 2; (\$50, Online)

Covers the function and operation of logic control circuits used in industrial, commercial and residential applications. Relays, limit switches and time-delays are introduced for a variety of uses. Automation with electrical control is common in many settings, using components wired together in specific configurations that form the logic needed to determine the sequence of machine operations.

AIT 155: Applied Industrial Technology Hands-On Lab

Units (Credits): 1-6; (Full Tuition, Face to Face)

Allows students of Applied Industrial Technology to use hands-on trainers and equipment for the study of various topics.

AIT 200: Applied Industrial Technology Projects

Units (Credits): 1-6; (Full Tuition, Face to Face)

Studies & develops hands-on special projects in Applied Industrial Technology.



CONSTRUCTION MANAGEMENT

Associate of Applied Science
Bachelor of Technology

GoPro Academy

GET TRAINED by Construction Management faculty that are certified by National Center for Construction Education Research (NCCER).

GET CERTIFIED by NCCER when you successfully complete the training, assessments and performance verifications. These are recognized credentials that our industry partners look for when making hiring decisions.

GET SKILLS:

Fall Semester: 8–11am

CEM 100 – Fundamentals of Construction Management: Construction math, hand tools, power tools, construction drawings, materials

CONS 108 – Methods and Materials: Site layout, intro to concrete, handling and placing concrete, employability skills

CONS 205 – Construction Site Safety: Basic safety (10 hr OSHA), developing safety plans, communication skills

Spring Semester: 8–11am

CONS 216 – Structural Layout & Assembly: Floor systems, wall and ceiling framing

CONS 116 – Plumbing Principles: Intro to drain, waste and vent systems, plastic pipe and fittings, copper pipe and fittings

AC 198 – Special Topics in HVAC: Electrical safety, residential electrical service, intro to HVAC

CONS 290 – Construction Internship: Fundamentals of crew leadership, academy capstone course

GET EMPLOYED after the completion of this academy program. You may get an offer for summer employment from our industry partners.

GET A DEGREE and *Fast track your future* by applying your college credits toward a Bachelor's Degree in Construction Project Management.

INFORMATION

Robert Ford: Robert.Ford@wnc.edu - 445-3352 • **Nigel Harrison:** nigel.harrison@wnc.edu - 445-4412

www.wnc.edu