Welcome to MATEC NetWorks Webinar

Industry Expectations of Graduates

NetWorks is an NSF-funded ATE Resource Center supporting faculty in Semiconductor, Automated Manufacturing, and Electronics education

Classroom Ready Resources in the Digital Library TechSpectives Blog Webinars

All this and more at *www.matecnetworks.org*











NetWorks is a part of MATEC, a member of the Division of Academic and Student Affairs at the Maricopa Community Colleges.



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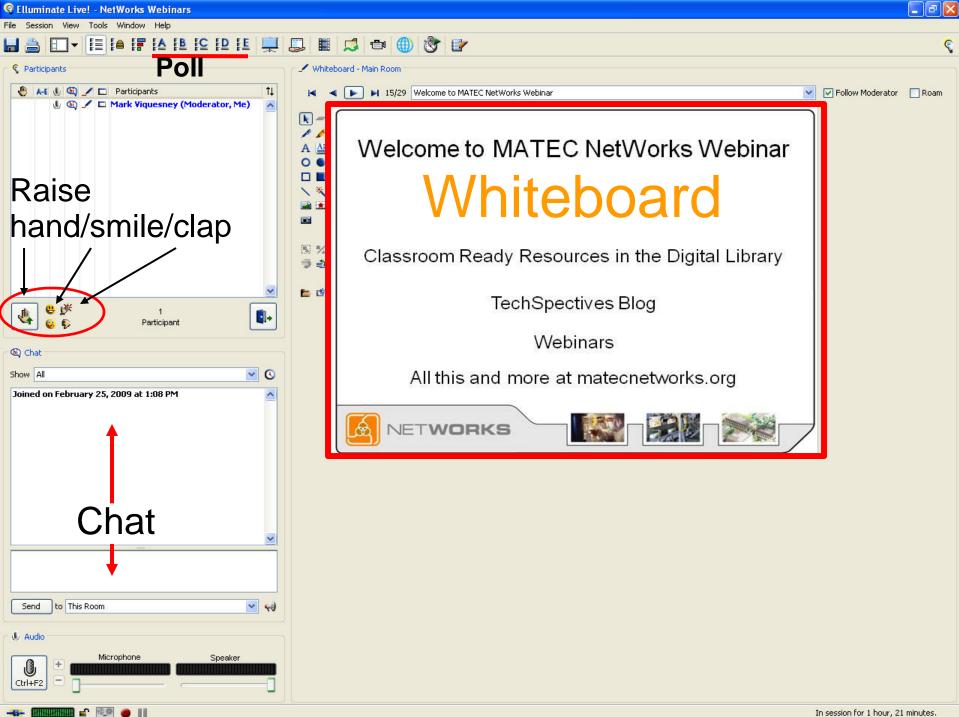
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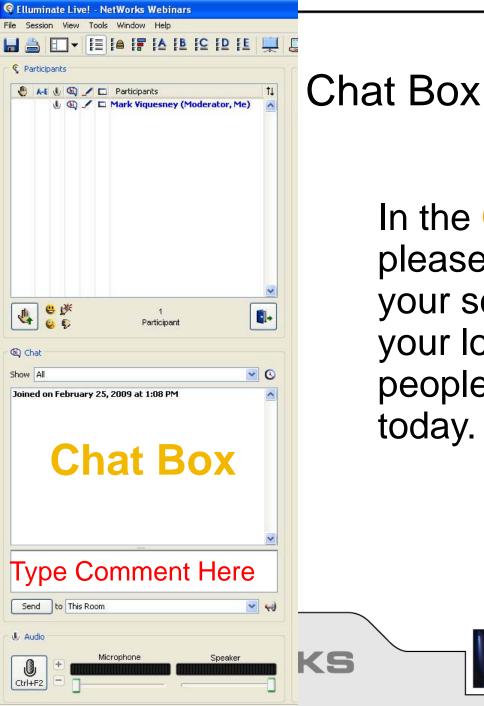






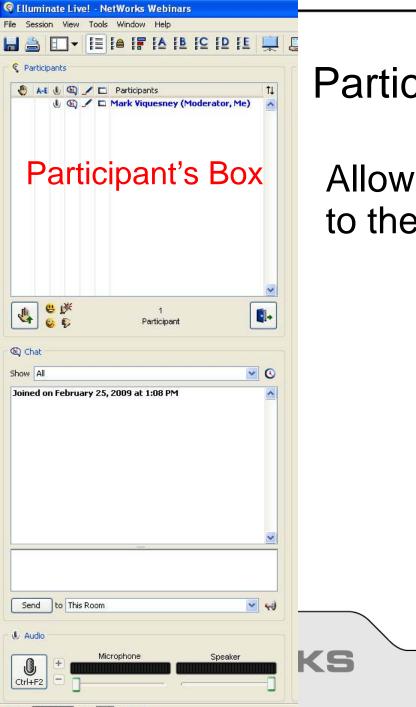






In the Chat Box, please type the name of your school or organization, your location, and how many people are attending with you today.





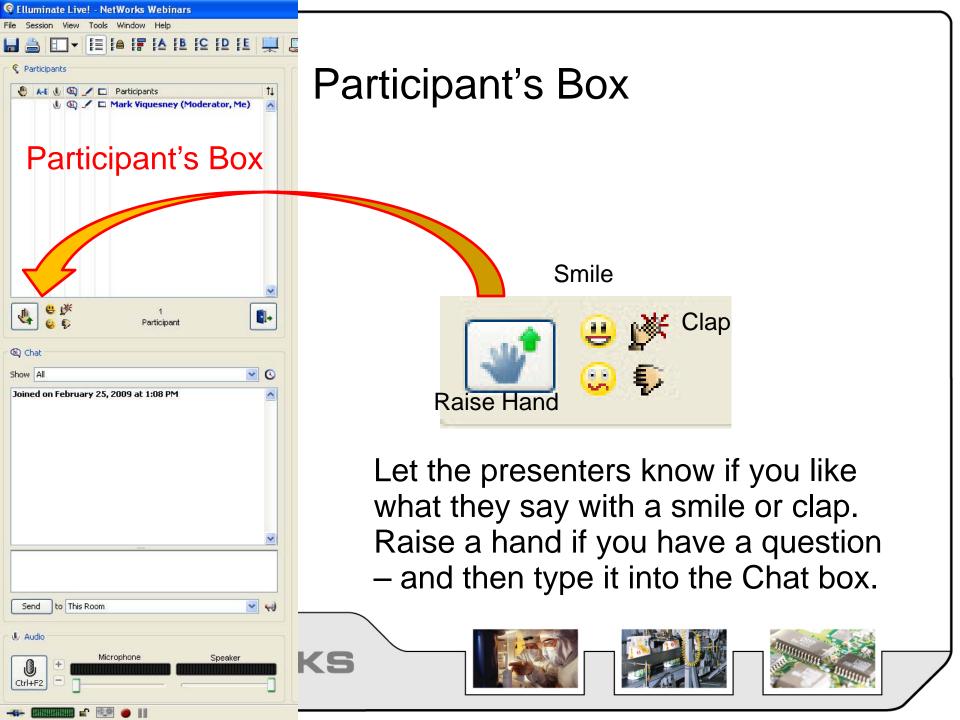


Allows you to non-verbally respond to the presenter's comments.









Click A-E to take the Poll

Poll

This webinar will have a Poll. Please answer: I heard about this webinar through:

A. @matec

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Speaker

KS

G Elluminate Live! - NetWorks Webinars

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Participants

- B. Email from ETD list serv
- C. Email from NetWorks
- D. Friend or colleague
- E. Other (please type where in Chat box)



NetWorks Webinar Presenters

Michael Lesiecki: Director of MATEC



Geoff Little: Workforce Consultant



Robert Edwards: Technical Services







Mark Retzer: Staffing Consultant





Outline: Industry Expectations of Graduates

- Test your Industry IQ
- Mike Lesiecki: How companies see the problem
- The problem as the panelists see it
- Mark Retzer: The Hiring Challenge
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Who is the Primary Customer of my Program?

- A. Businesses that hire
- B. The College that promotes
- C. Students who enroll
- D. Faculty that develop, improve, deliver









Why do students fail interviews for high-tech companies?

- A. Technical foundation
- B. Negative behaviors

- C. Poor safety values
- D. Communication problems









Desired Behaviors

- Safety
- Coping
- Tolerance of ambiguity



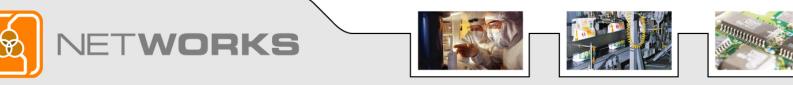






Desired Behaviors

- Safety
- Coping
- Tolerance of ambiguity
- Analytical problem solving
- Goal setting
- Commitment to task



Desired Behaviors

- Safety
- Coping
- Tolerance of ambiguity
- Analytical problem solving
- Goal setting
- Commitment to task
- Spoken communication
- Team building
- Drug-free workplace









Do you have a section in your curriculum that addresses these expectations?

A. Yes – mark the green X and then in the Chat box how it addresses expectations

B. No



The problem and challenge as the panelists see it

Robert Edwards



Geoff Little



Mark Retzer











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Background

Professional

20+ years in Semiconductor industry

Began 19 year career at Intel driving forklift

Quickly moved up/on to new fields within Intel

Security, Training and Staffing

Last 10+ years have been in Staffing with a large focus on university programs









Background

Personal

San Jose native (3rd generation)

Single parent for a few years

Life long learner, however I have still not earned a 4 year degree









Entry Level Characteristics

Academics

Strong academic knowledge in field of study









Entry Level Characteristics

Skills/Strengths

- Self starter Hit the ground running
- Teamwork
- Communication
- **Results focus**









Entry Level Characteristics

Experience

Hands on experience in field of study

Relevant experience

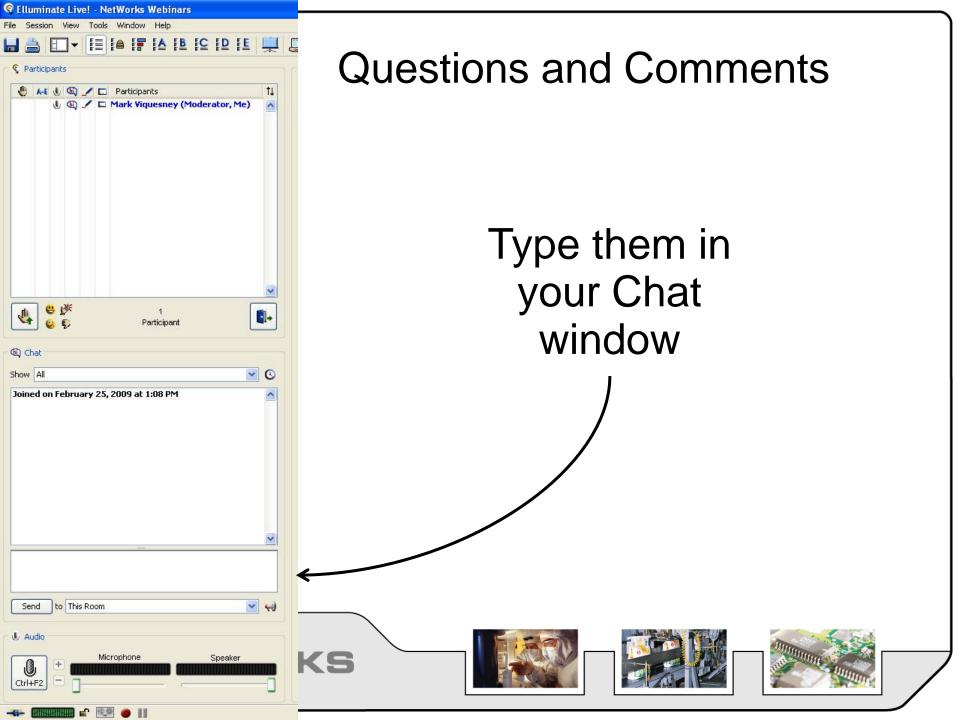
Experience that highlights strengths/skills











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"Are They Really Ready to Work?"

- Critical thinking/problem solving
- Oral communication
- Written communication
- Teamwork/collaboration
- Diversity

Information technology application

Leadership

Creativity/innovation

Lifelong learning/self direction

Professionalism/work ethic

Ethics/social responsibility

The Conference Board, Corporate Voices for Working Families, the Partnership for 21st Century Skills, and the Society for Human Resource Management study of industry's perspective on the preparedness of recent graduates as they entered the workforce - 2006









Clements Group Industry Sector Forums -Typical Results

Communication, both written and verbal

Ability to work in teams

TWORKS

Problem-solving

Clements Group industry-sector forums conducted on behalf of community colleges as part of its Business Partnership Development Program









Clements Group Industry Sector Forums -Typical Results

Work ethic (commitment to the job and the company)

Critical thinking

Independent thinking

Self-motivation

Clements Group industry-sector forums conducted on behalf of community colleges as part of its Business Partnership Development Program











Clements Group Industry Sector Forums -Typical Results

Taking responsibility for one's work

Leadership

Understanding basic business principles, the particular business in which they are working, and the impact of their actions on the business' success or failure

Clements Group industry-sector forums conducted on behalf of community colleges as part of its Business Partnership Development Program











Technical Position 1 Summary

Tech 1 is an entry-level field position, and typically the start of the employee's telecommunications career. Under limited supervision, in accordance with company policies, procedures and practices, the Tech 1 performs routine reconnects; performs changes of service for residential and commercial video customers; disconnects all product lines; teaches customers how to use equipment; resolves billing and/or payment questions while on-premise; and up sells and upgrades company products and services. Continued employment is contingent upon achieving required technical and safety certifications.



Technical Position 2 Summary

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Under limited supervision the Tech 2 performs changes of service for the video

product line *including routine installs* and reconnects; *performs CLI detection and repair*,

- *troubleshoots and repairs video service problems*; disconnects all product lines;
- teaches customers how to use equipment; resolves billing and/or payment questions

while on-premise; up sells and upgrades additional company products and services.









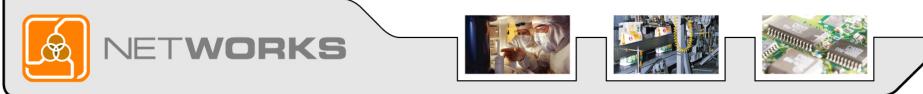
Technical Position 3 Summary

Under limited supervision the Tech 3 *Universal* handles a full range of *service calls* for

residential and commercial customers for all products and services. Installs, reconnects, and

- performs changes of service for all products and services.
- Learns and applies troubleshooting
- skills for all services. Disconnects all product lines. Teaches customers how to use equipment.
- Resolves billing and/or payment questions while on-premise. Up-sells and upgrades company

products and services.



Ability to perform job from high places (on ladders and/or poles)

Knowledge of the National Electrical Code (NEC), the National Electrical Safety Code (NESC), the Occupational Safety and Health Act (OSHA), Federal **Communications Commission** (FCC), Environmental Protection Agency (EPA), Department of Transportation (DOT), American National Standards Institute (ANSI), and various state and local codes including G.O. 95 and G.O. 128, (when applicable).

Tech 1 Operational CompetenciesAbility to use basic cableAbility to read general system layoutsinstallation tools and hand toolsfrom blueprints

Knowledge of cable television products and services

Ability to comply with safety procedures and requirements

Ability to safely operate motor vehicle assigned for this job

Knowledge of basic mathematics

Ability to count and handle U.S. currency

Ability to communicate with customers in a clear and straight forward manner

Ability to work independently, prioritize and organize effectively











Sample Communications Company Career Ladder Tech 2 and 3 Operational Competencies

Operational Competencies: Tech 2

All Tech 1 Competencies Plus

Ability to use basic cable test equipment

Ability to work on a computer

Operational Competencies: Tech 3

All Tech 1 & 2 Competencies Plus

Knowledge of PC hardware, software and the internet

Knowledge of components on the PC desktop and ability to perform the following:

Launch an application

Add a shortcut

Log into and navigate through a dial-up or other internet service

Operational Competencies: Tech 3 (cont)

All Tech 1 & 2 Competencies Plus

Install software like Microsoft Internet Explorer, Netscape Communicator, Microsoft Windows, MS Office applications, educational software or games

Navigate through a file system via the DOS prompt or window interface

Access the Control Panel to configure components such as a printer, modem, and monitor

Knowledge of telephone provisioning and other related procedures and processes

Knowledge of telephony test equipment including digital test equipment

Knowledge of telephony interior wiring











Sample Communications Company Career Ladder Work Experience/Credentials

Related Work Experience:

- Tech 1 Entry-level position
- Tech 2 CATV or wiring experience
- Tech 3 Nine months CATV or wiring experience









Sample Communications Company Career Ladder Work Experience/Credentials

Training/Licenses/Certifications:

Tech 1 - Valid drivers license and satisfactory driving record High school diploma or equivalent

Tech 2 - Valid drivers license and satisfactory driving record High school diploma or equivalent

Tech 3 - Valid drivers license and satisfactory driving record High school diploma or equivalent



Sample Communications Company Career Ladder Core Competencies - All Tech Levels

Customer Focus: Exhibits behaviors that support "best in class" customer satisfaction. Focuses on understanding, meeting, and exceeding customer expectations. Able to see issues from customer's perspective and determine their needs. Builds customer confidence by answering customer questions with self-assurance. Supports company marketing strategies and campaigns. Familiar with competitor products and services and is able to articulate the value and advantages of our products and services.









Sample Communications Company Career Ladder Core Competencies - All Tech Levels

Team Focus: Demonstrates knowledge and skills related to the functional area. Supports the success of his/her immediate team as well as other departments. Serves as a resource to team members. Shows respect for coworkers and customers and respects diversity in all its forms. Contributes to the development of others through effective coaching. Uses effective listening, verbal, and written skills to provide necessary information clearly and in a timely fashion. Is safety conscious; avoids unsafe acts and conditions; recognizes hazards and corrects them when possible or notifies management; accepts responsibility for personal, team, and public safety. Monitors own actions to be sure of following the rules and regulations set forth by both company and other regulating bodies.



JET WORKS







Sample Communications Company Career Ladder Core Competencies - All Tech Levels

Continued

Business Results Focus: Considers the impact on the business when performing job related duties. Able to overcome obstacles to finish projects and work activities. Able to follow instructions or take action and address opportunities with little supervision. Able to take extra steps to prevent mistakes or create opportunities. Works proactively to reduce or avoid risk. Takes personal responsibility and conveys a sense of urgency to drive issues to closure.

Innovation Focus: Fosters an environment that accepts and embraces change. Flexible, and willing to listen to other's ideas.. Able to apply common sense, theory and experience to decision making. Able to recognize similarities between past and present situations to make effective decisions. Actively pursues learning and self development in the spirit of continuous improvement.









Sample Communications Company Career Ladder Advancement Time Line

Tech 1 - Within the first 90 days (maximum) of service, an Employee must complete the certification required for Tech 1. The employee must successfully complete the training programs as described on this Job Description and pass the Tech 1 certification exams. In order to be certified as a Tech 1, the employee must:

Pass the Written Assessment for Tech 1

Pass the Skills Assessment for Tech 1

Meet Company Employee Standards









Sample Communications Company Career Ladder Advancement Time Line

Tech 2 - The employee must successfully complete the training as described on this Job Description and pass the Tech 2 certification exams. In order to be certified as a Tech 2, the employee must:

Pass the Written Assessment for Tech 2

Pass the Skills Assessment for Tech 2

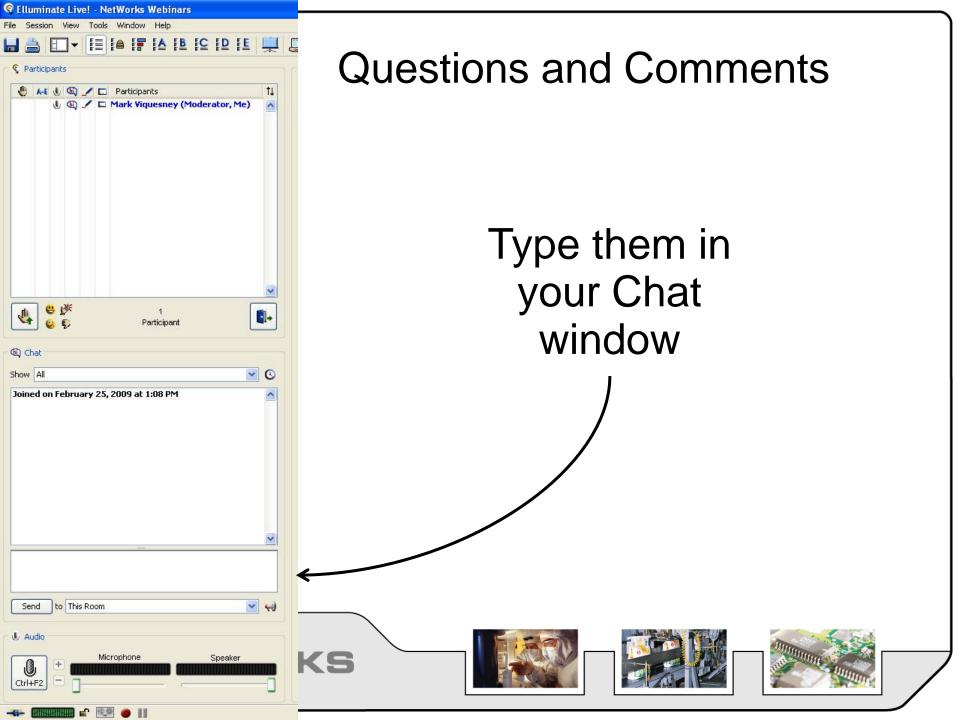
Meet Company Employee Standards

Meet time in grade -- Certification to Tech 2 can take place no sooner than 180 days after Tech 1 certification.

Acquire Supervisor approval

Tech 3 – Follows same pattern

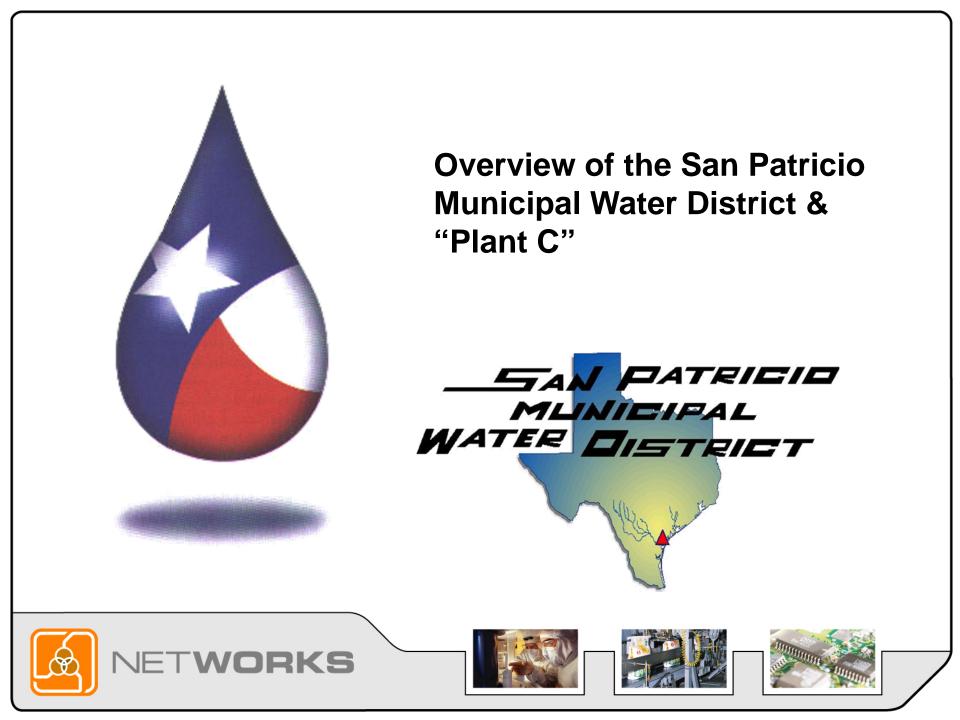




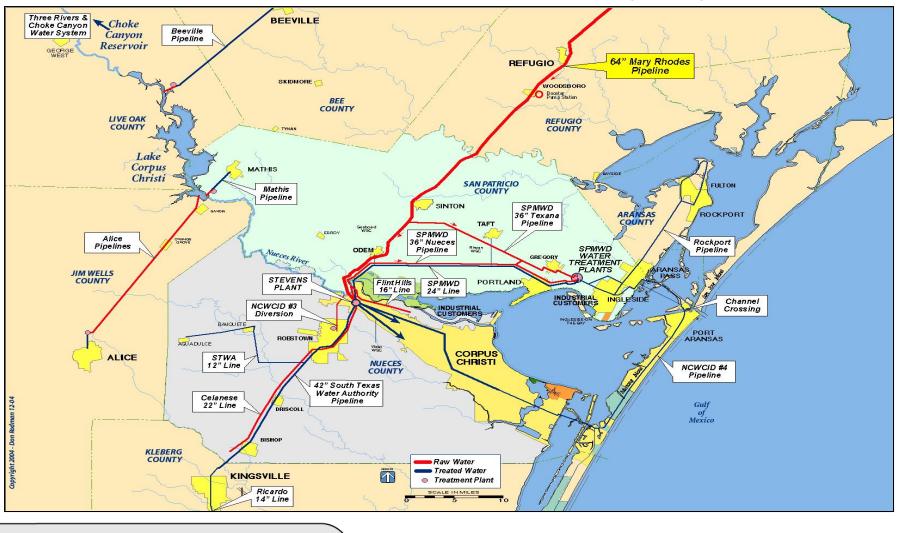
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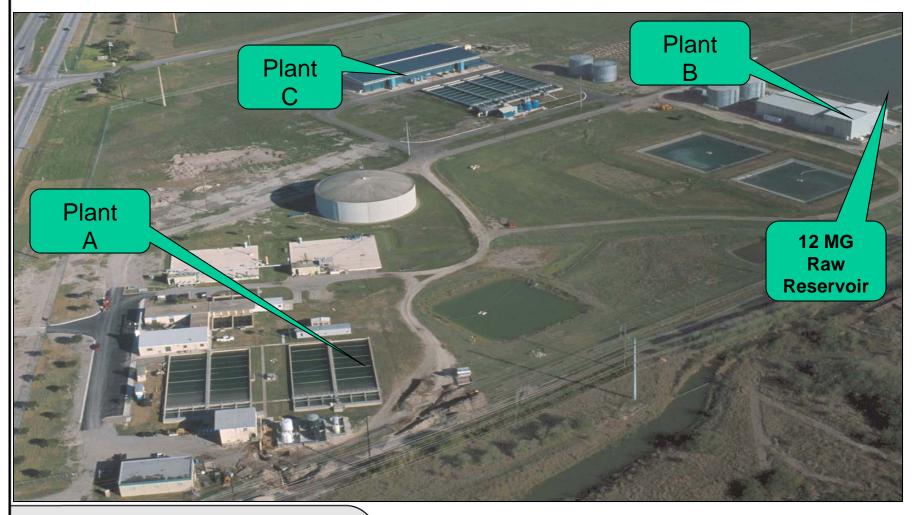
Coastal Bend Water Supply System





Three Water Treatment Plants

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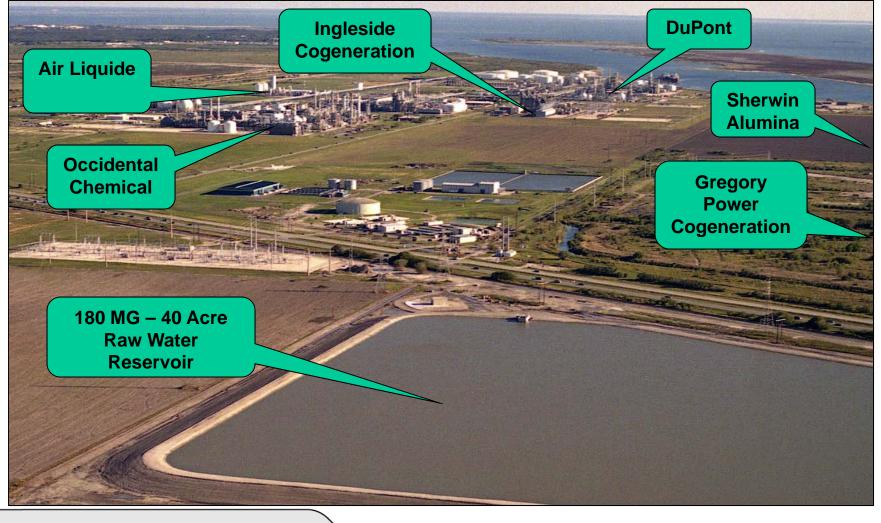








Located on Corpus Christi Bay



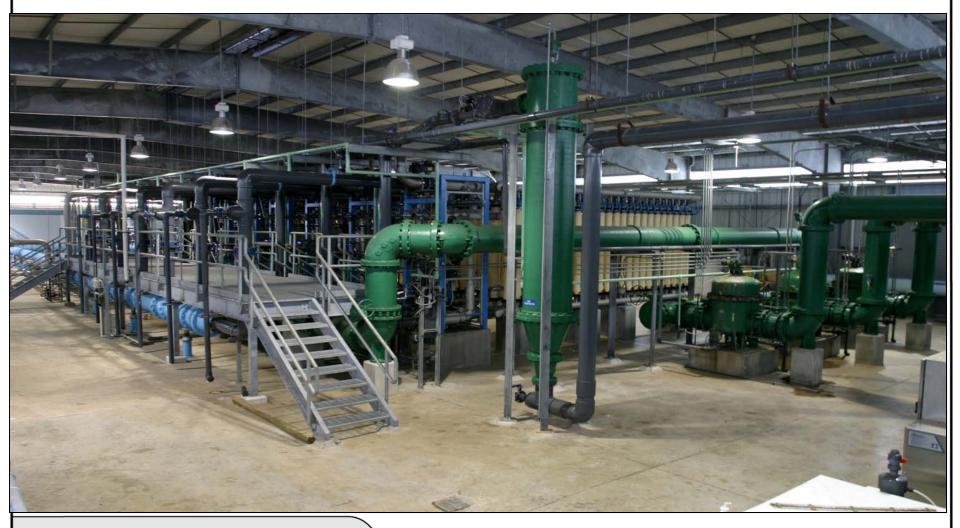








Feed End of Racks A-F



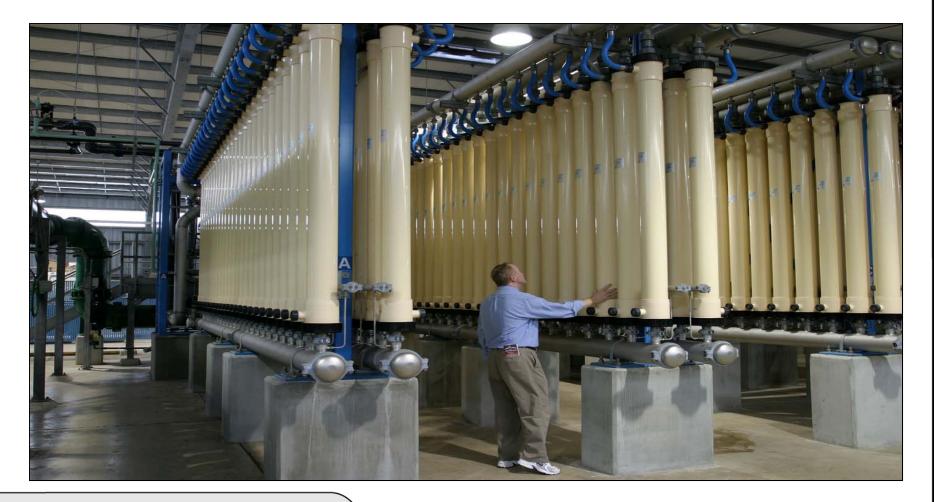








50 Modules Per Rack



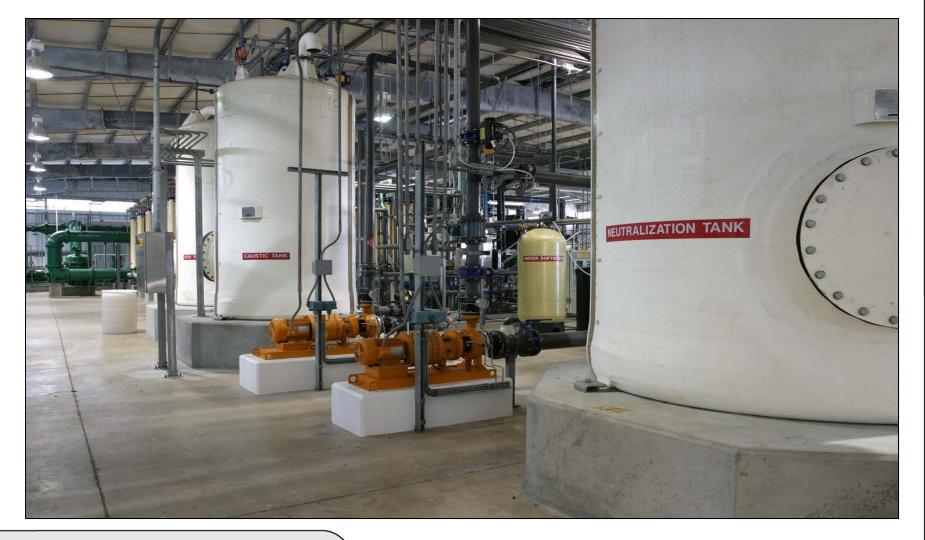








Clean-in-Place Area

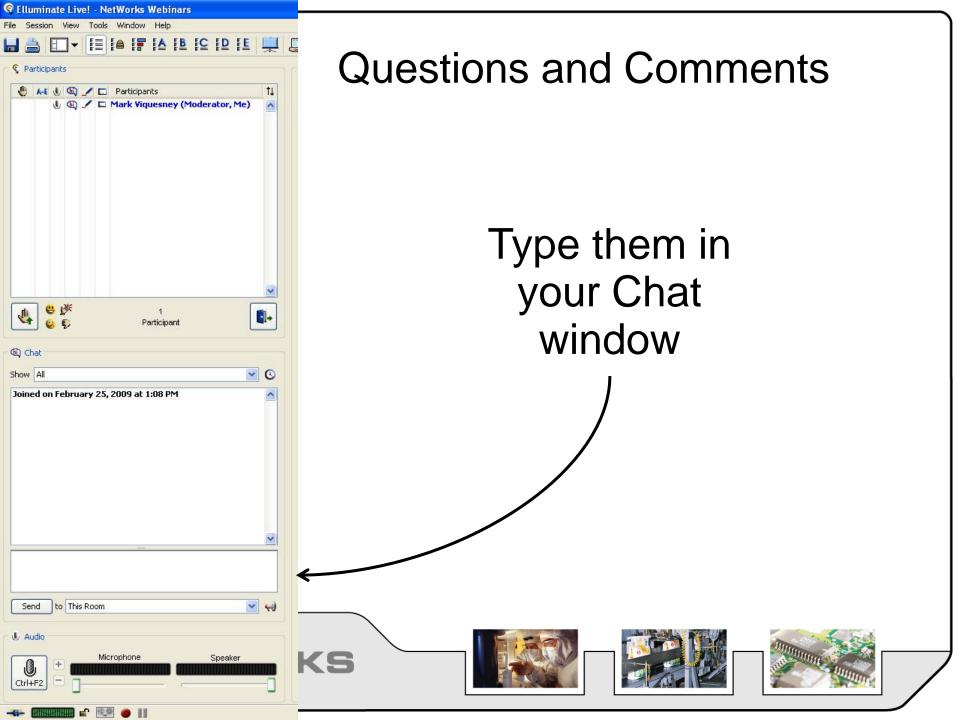












Industry stresses technical writing and communication skills for its potential employees – *What's an educator to do?*

- Document results or log information
- Give reports and make presentations
- Pass down
- Teach/instruct
- Communicate and listen
- Research and specify



How Can We Better Serve You?

Whether you are joining us live or watching the recorded version of this webinar, please take 1 minute to provide your feedback and suggestions.

http://questionpro.com/t/ABkVkZF5Gd







Thank you for attending

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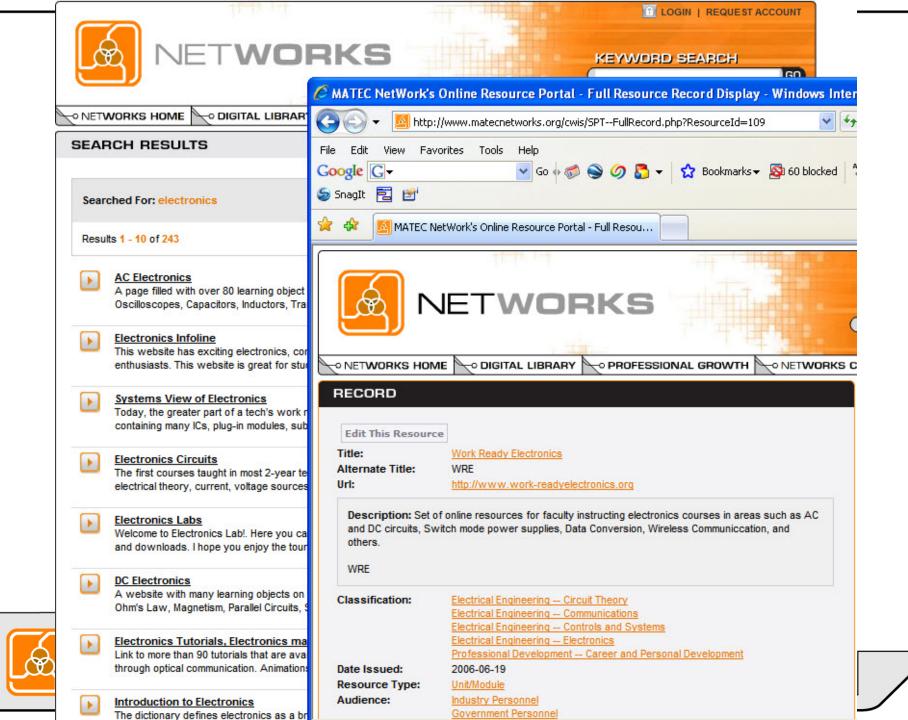
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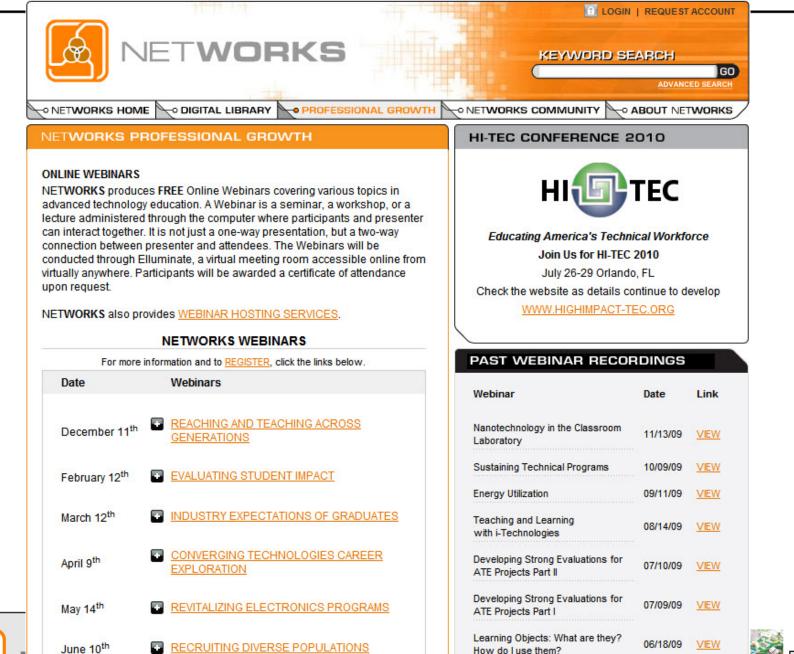
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May 14: Revitalizing Electronic Programs June 10: Recruiting Diverse Populations

Visit *www.matecnetworks.org* for more details about these upcoming webinars.











Join Us in Orlando, FL July 26-29, 2010

Visit www.highimpact-tec.org as more details develop



Certificate of Participation

If you attended the live version of this 1.5 hour webinar and would like a certificate of participation, please email darlene.cieplinski@domail.maricopa.edu









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