

## Facility Operator Certification for Utility Systems

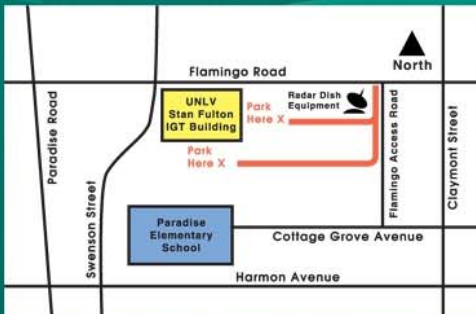
Nevada FOCUS is a collaborative effort of Nevada Power, the College of Southern Nevada (CSN) and the Management Assistance Partnership (MAP) of the Nevada System of Higher Education (NSHE). The purpose of the Nevada FOCUS program is to develop in-state resources for facility energy education at the building operator level and improve energy efficiencies and indoor air quality for building occupants, employees, and patrons.

Nevada FOCUS is recognized state-wide through continuing education of professional development credit. Upon successful completion of each course, CSN will award 0.7 CEU (7 PDH) and issue a certificate of certification to those who satisfy all program requirements.

To become certified, candidates must successfully complete eleven courses of instruction, pass all end-of-course exams and be recommended for certification by the Certification Review Board. Students may enter program at any time. Refer to course calendar on our website.

Fees: \$150 per course. Continental breakfast, lunch, refreshments and free parking provided. Discounts may apply. Please register online at: [www.nvfocus.com](http://www.nvfocus.com).

Location: UNLV Stan Fulton International Gaming Institute, 801 E. Flamingo Road, Las Vegas, NV. (see campus map). Each course starts at 7:30 a.m. and concludes at 4:00 p.m. Breakfast is served at 7:00 a.m. Please arrive early for registration.



## Southern Nevada FOCUS ADVISORY BOARD

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Industrial Extension Program of the  
Nevada System of Higher Education

In Partnership With



R10-27-09

NEVADA  
**FOCUS**  
FACILITY OPERATOR CERTIFICATION  
FOR UTILITY SYSTEMS

Track II Courses  
Qualified People ...

For Improved  
Operations.

**MAP**  
Management Assistance Partnership  
manufacturing • construction • mining

# FACILITY OPERATOR CERTIFICATION for UTILITY SYSTEMS (FOCUS)

## Southern Nevada Track II – September 17, 2009 – October 21, 2010

### September 17, 2009 Electrical Systems – Part I

- Basic Applied Electrical Theory – AC & DC
- Electrical Distribution – Primary & Secondary
- Lighting Fundamentals
- Efficient Lighting & Controls

Event #324EV

### October 22, 2009 Electrical Systems – Part II

- Electrical Control Circuits
- Motor Theory/Motor Selection – Start/Stop/Ladder Logic
- Electrical Motors – Variable Speed Drives
- Low Voltage Systems – Telecommunications, Security & Fire Alarms

Event #327EV

### November 19, 2009 HVAC – Part I

- Central Plant Boilers, Chillers, & Cooling Towers
- Hydronic Systems, Pumps, & Treatment
- Air Handlers – Constant & Variable Air Volume (VAV)
- Testing, Adjusting, & Balancing – Air & Water Systems

Event #338EV

### January 28, 2010 HVAC – Part II

- HVAC Systems & Controls – Electric, Electronic & Pneumatic
- Ventilation
- Indoor Air Quality
- Housekeeping & Cleanliness – Equipment, Filters, & Coils

Event #337EV

### February 25, 2010 Energy Management Systems

- Why EMS – What It Can Do For You
- Data Visualization – Optimizing EMS Capabilities
- Energy Management – Optimizing Utility Rate Structures
- Computerized Maintenance Management Systems (CMMS)

Event #336EV

### March 25, 2010 Commissioning & Operating to Code

- Code Interpretation: UMC, IBC/UBC, NEC, UPC & ADA
- Understanding Theory of Fire & Life Safety Codes
- Code Requirements: Indoor Air Quality – ASHRAE
- Fundamentals of Design – Electrical, Mechanical & Plumbing Systems

Event #335EV

### April 22, 2010 Energy Conservation

- Energy Conservation Measures That Work for You
- Identifying Common Energy Waste
- Water Efficiency for Building Operations
- Compressed Air Systems

Event #334EV

### May 20, 2010 Innovative Management Principles – Best Practices

- Identifying What Motivates People – Behavioral Modification
- Managing for Energy Efficiency – Eliminating Wasteful Practices
- Project Management Systems – Software that Works
- Project Scheduling Fundamentals

Event #333EV

### June 24, 2010 LEED & Green Building Concepts

- Design Goals & Project Objectives
- Integrating Concepts Into Projects
- Alternative Energy Sources
- Passive Energy Conservation Measures – Thermal Envelope Systems

Event #332EV

### July 22, 2010 Project Economics, ROI & Cost Benefits – the How To's

- Cost Benefit Analysis
- Life Cycle Costing – Energy Assessments
- Value Beyond the Building
- Investments/Return on Investments (ROI)

Event #331EV

### August 19, 2010 Operations & Maintenance

- Preventative Maintenance – Operations, Education & Training
- Thinking Beyond Your Specialty – Extending Equipment Life
- Building Support for Your Cause – Increasing Awareness
- Emergency Power Operations & Stand-by Generation

Event #330EV

### September 23, 2010 Building Quality Into Your Systems

- Continuous Quality Improvement – Ongoing Evaluations
- Inspections & Standard Practices That Work for You
- Functional Testing – Developing a Deficiency List
- Safety in the Workplace – Your Primary Consideration

Event #329EV

### October 21, 2010 Stewardship & Conservation

- Energy Conservation Through Coil Efficiency/Codes
- Stewardship – Sustaining the Effort
- Thinking Out of the Box

Event #328EV

Register Online @  
[www.nvfocus.com](http://www.nvfocus.com)