

Gas Capitol Rectifier School

Student Union Building • Conference Room • SW 229 C&D

March 27, 2012

- 7:30 a.m. Registration
- 8 a.m. Welcome Gas Capitol Section NACE
- 8:30 a.m. Rectifiers and Their Applications, Styles, Types & Features
- 9:30 a.m. Technical Session – Theory, OHMS Law, Basic Cathodic Protection, Potentials (“On” Potentials, Instant Off, IR Drop Free)
- 10:30 a.m. Rectifier Component Design and Operation-Silicon, Selenium, Surge Protection, Breakers/Fuses
- 1 p.m. Continuation of Components – Typical Failures and Troubleshooting Techniques
- 2:30 p.m. Special Purpose Rectifiers – Three Phase, Constant Current, Potential Controlled, Multiple Circuit, Switchmode Rectifiers, Remote Monitoring
- 3:30 p.m. Wiring Diagrams and Schematics – Typical Rectifier Types
- 4 p.m. Grounding and Safety Issues – Method for Checking Grounding
- 4:30 p.m. End Day One

March 28, 2012

- 8 a.m. Review and Discussion – Review of Day One and Questions from Attendees
- 8:30 a.m. Rectifier Efficiencies – Conventional and Wattmeter, Power Factor, Improvements
- 10 a.m. Rectifier Maintenance – Preventive, Maximum Operation Limits
- 11 a.m. Troubleshooting – Standard Units, Special Purpose Rectifiers
- 1 p.m. Hands-On Troubleshooting – Analyze Various Problems and Perform Repairs
- 3:30 p.m. General Discussion – Hands-On Review (Short Cuts, Tips, etc.)
- 4:30 p.m. End Day Two

March 29, 2012

- 8 a.m. Rectifier Class Wrap-Up (Miscellaneous Topics, Rectifier Pricing vs. Size, etc.) – General Round Table Discussion
- 8:30 a.m. Written Test – Basic (Self Grade)
- 9:30 a.m. Certificates and Door Prize Drawing (Cash Drawing)
- 10 a.m. Open discussion on any aspect of corrosion science (theory, equipment, application etc.). This part of the school is for the student’s general or specific knowledge and growth. Also, an outdoor lab is available and a good selection of test equipment. Committee members will be available for these discussions so bring all your questions and if we can’t answer them, we’ll find out who can.

**** Please let us know how to improve; we will draw one name from those filling out the evaluation form and give that person \$25****

Emergency Contact Number: SCCC/ATS main switchboard number is 800-373-9951 or the Business & Industry Office is 620-417-1170.

Lunch: Lunch will be from 11:30 a.m. to 12:30 p.m. each day. Morning and afternoon refreshments will be provided. NACE will be sponsoring a social hour/dinner on March 27, time and location to be announced.

Lodging Information: You are responsible for your own room reservations. Hotel/motels in Liberal include: Budget Host LaFonda, 620-624-5601; Days Inn, 620-626-7377; Hampton Inn, 620-604-0699; Holiday Inn Express, 620-624-9700; Liberal Inn, 620-624-7254; Quality Inn, 620-624-0242; or the Super 8 Motel, 620-624-8880.

**** Please bring your multimeter for the hands-on session****



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