**Outcome:** Understanding of Rounds/Equipment inspections. Students will continue using procedures to do operator rounds and Equipment Inspections, along with using logical reasoning to decipher equipment and process health based on comparing and contrasting normal and abnormal Equipment Readings.

**Lecture:** Lecture to review:

1. Rounds/Equipment inspections reasoning and importance
2. Describe what is normal operation of equipment to create a baseline operation
3. Inspect, Log, and Compare the status of Equipment as compared to Normal status
4. Describe using Rounds to detect anomalies in the process

**Demo:**

1. Hands on Using the Hot Unit Aka process skid take readings and create a base line (Benchmark Readings) for those process variables during Normal Operation, Then using those Normal values begin to troubleshoot minor process upsets by taking equipment readings then comparing to normal conditions. Log both normal conditions and abnormal situations with remedies in the Process Log Book.
2. Industry Rounds for Student Recognition and comparison for their Hot unit rounds sheet they will create.

**Homework:**

*Using Microsoft excel Student will create a Rounds sheet for the Hot unit, based off Industry examples. Be Creative!!!*

**Lab:**

1. Location: HOT Unit (GRHS)
2. Students Will Demonstrate an Understanding of Operational Rounds/Equipment Inspections and their importance.
3. Students to identify the various components of Hot Unit that should have Rounds Inspections (IE Important Equipment/Critical)
4. Students will create Hot unit rounds sheets
5. Students will use created rounds sheets to log benchmark readings of running system for future analysis.

**Documentation:**

1. Example Rounds from industry.
2. Use of excel to create Rounds sheet for hot unit.
3. Hot Unit Procedures

NP-P9

NP-P10

NP-DS1

NP-DS2

**Competency Mastery:** Students will master the rounds and equipment inspections competency by creating pertinent rounds and inspection logs both in excel. Template creation includes actual Hot unit rounds and equipment-based inspection points for areas of the Hot unit not monitored by the DCS system. Students will also master Competency through demonstration of hands on skills during Hot Unit Module exercises.