**Outcome:** Students learn the different types of Vibration Monitoring Equipment, common values used in vibration readings and to use the testing equipment and how to use the data produced from the testing tool.

**Lecture:** Lecture to review:

1. Review Vibration Monitoring research done by students and discuss Vibration Monitoring along with the units used for vibration readings along with the differences between the reading types
2. How and when to use Hand Held Rounds based vibration monitoring vs. installed continuous vibration monitoring equipment.

**Demo:**

1. Hand On Hot Unit
2. Fluke 805 Vibration Monitoring meter Instrument/pen

**Homework:**

*Using Microsoft word Student to do Research paper on Vibration Monitoring and the different types and uses Vibration Monitors both hand held and Installed Continuous Monitors.*

**Lab:**

1. Location: HOT Unit (GRHS)
2. How to use the Fluke 805 Vibration Meter to Gather reading from the hot unit and incorporate those readings into their Rounds sheet.
3. Students to identify on the Hot Unit which Vibration readings should be in the DCS vs. on a Round sheet and explain why.
4. Students will Take Readings on the hot unit to Verify Baseline Vibration Readings and log those readings for future analysis against abnormal Vibration Situation.

**Documentation:**

1. Fluke 805 vibration Meter Manual
2. The Excel Rounds Sheet Created by Operators in Training.
3. Hot Unit Procedures

NP-IE1 NP-LG1

NP-MV1 NP-LG2

NP-MV2 NP-LG3

NP-C1 NP-LG4

NP-C2

**Competency Mastery:** Students will demonstrate mastery of Vibration monitoring by writing a descriptive paper on Vibration monitoring and it uses along with demonstrating use of the shop Vibration Monitor Fluke 805 vibration Meter and explaining how and why they use Vibration monitoring on the Skid along with logging the information obtained from the Vibration Monitor in the Process rounds log sheets both base line numbers and ongoing verification numbers. Students will also master Competency through demonstration of hands on skills during Hot Unit Modules.