**High Plains Technology Center**

**Health Careers**

**Learning Activity Packet (LAP) for Diagnostic Aide**

**Related unit of instruction:**

Radiation Protection for the Aide

**Approximate Completion time:**

15 hours

**Rationale for the Lap:**

This LAP is designed to help the student be able to discuss various methods of radiation protection for personnel in the radiography department and patient by utilizing the cardinal rules of radiation protection. Students will be able to describe several devices used to detect and measure exposure to ionizing radiation.

**Criteria for successful completion:**

By the end of this LAP the student will

1. Read and turn in work sheets for Chapter 9 in Adler and Carlton’s *Introduction to Radiologic Science and Patient Care*
2. Pass the test for the chapter

**Learning Objective:**

*Basic Radiation Protection and Radiobiology* *Chapter 9*

1. Identify the sources of ionizing radiation.
2. Describe the units used to measure radiation exposure.
3. Describe the nature of ionizing radiation.
4. Explain the ways in which ionizing radiation interacts with matter.
5. List the permissible limits of exposure for occupational and nonoccupational workers.
6. Explain the reason for the varying sensitivity of body cells to ionizing radiation.
7. Describe the ways in which the entire body responds to varying amounts of radiation.
8. Discuss the various methods used to protect the patient from excessive radiation.
9. Discuss the various methods used to protect an occupational worker from excessive radiation.
10. Describe several devices used to detect and measure exposure to ionizing radiation.