

# Outline

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## Hour

1. Introduction to patient care in radiology
2. Ionization and radiation
3. Methods of producing quality x-rays
4. Dark room procedures
5. Patient protection
6. Public and occupational protection

## Objectives

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In this course the learner will:

- Review x-ray physics as it relates to radiation production
- Review different types of radiation
- Identify methods of reducing patient, staff and public x-ray exposure
- Review the ACCR Guidelines address issues common to clinical practice
- Identify the three principal reasons for decreased sharpness associated with traditional imaging methods.
- Develop skills to decrease scatter.
- Review the amount of change in x-ray settings to produce a visible difference in the image.
- Develop skills to improve image detail.
- Identify the four factors that influence density.
- Identify requirements for film identification.
- Identify how to produce quality x-ray images
- Review case studies of patients that required related radiographic study