**Lesson Plan Outline Geometry in Construction**

**Title:**

Lines intersecting a circle

**Objective(s):**

Students will solve problems involving lines intersecting a circle and their relationships of the arcs, angles, and segment

**Learning Standard(s):**

[CCSS.MATH.CONTENT.HSG.C.A.2](http://www.corestandards.org/Math/Content/HSG/C/A/2/)

Identify and describe relationships among inscribed angles, radii, and chords. *Include the relationship between central, inscribed, and circumscribed angles; inscribed angles on a diameter are right angles; the radius of a circle is perpendicular to the tangent where the radius intersects the circle.*

**Activities:**

Students will do an exploration activity with the arcs and angles of line segments intersecting a circle

**Materials:**

Lines intersecting a circle W.S.