

## Hardfacing

-Also referred to as **hardsurfacing**

-Is the melting of very hard metal powders and welding them onto another base metal surface

-this may also be done using a special type of welding rod to hardsurface a tool or machine part

-Some tools and heavy equipment such as bulldozer blades, plow blades, backhoe bucket teeth, etc. are subjected to a great deal of wear in the field. These can be protected against wear by **hardening** the area prone to wear

-one way of doing this is to heat the area with a welding torch and then melting a special metal over it. The new metal will be extremely resistant to wear

-another common method of hardfacing heavy equipment is to simply lay weld beads on the desired area (much like completing a pad of beads). After running the required amount in one direction parallel to one another, start a new pad on top at a 90 degree angle to the first pad

-The most common hardfacing materials are non-ferrous cobalt-chromium-tungsten alloys