-Welding defects :

 There are several types of welding defects, including porosities, cracks, inclusions, incomplete welds, distorted welds, overthickness, misaligned welds, poorly cleaned welds, and poorly penetrated welds.

 

1. The cracks :

 Are one of the most common welding defects. Cracks can occur

 - when the base metal is not heated to the appropriate temperature.

 - when the base metal is too thin

- when the weld bead is too Small.

 - when the welders did not use the correct welding technique.



 2- the inclusion :

  It's a common welding defect that occurs when impurities such as rust, dirt, oil or unmolten metal become trapped in the weld bead. Inclusions can weaken the weld.



1. Incomplete welds :

  It's a common welding defect that occurs when the weld bead does not penetrate sufficiently into the base metal. Incomplete welds can weaken the weld and reduce its strength.


4- Deformed welds :

  It's a common welding defect that this produces when the welding is subjected to exessive thermal or mechanical constrained. Deformed weldes that can cause problemes such as cracks…….



1. The overthicness :

It is a commen welding defect that occurs when the welding process is thincker than necessary.

Overthinckness can cause problems such as finishing stesses.

1. Malalaigned weldes :

This is a current welding defect that accurs when the parts to be welded are not properly alined. Malalained

welds can cause problems such as cracks reduced resistance.



1. Poorly cleaned welds :

It is a commen welding defect that occurs when the welding area is not properly cleaned before welding. Unclaned welds could cause problems such as those included.



1. The poorly penetrated welds :

 It is a commen welding defect accurs when the welder cord does not penetate deep enough into the welding part. Poorly penterated welds can cause problems such as poor welding quality.