



Environmental Education Business

●Lead-free Soldering School

Oki Human Network Co., Ltd. is running a “Certification Program for Lead-free Soldering Skills”. Lead-free solder has a high melting temperature and thus requires working fast. To prevent heat-sensitive parts from breaking, and to avoid bad soldering, the soldering technicians need skills of a higher level than before. This is where we hold training seminars for lead-free soldering skills, and certify technicians in five levels upon an evaluation of their skills. The program helps to train the specialists needed for the elimination of lead in products.



Lead-free soldering school

Environmental Consulting Business

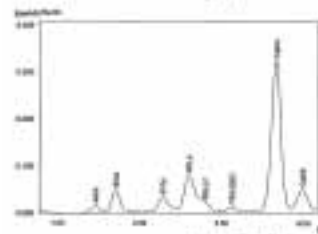
●Assistance in Green Procurement/Chemical Substance Surveys

To eliminate the six substances subject to the RoHS Directive in a product, green procurement surveys are required to grasp the chemical substances contained in the parts making up a product. This is where Oki offers services to carry out green procurement surveys in place of its customers, or to assist in green procurement surveys that customers carry out by themselves.

●Material Analysis

For material analysis, we also have accumulated know-how using high-precision analysis equipment. Using energy-dispersive X-ray fluorescence spectrometers together with high-precision analysis equipment, we respond to a wide range of analysis requests from inside and outside of the company. Because we combine precision analysis with simple analysis, we are able to offer analysis results of a high level at low cost.

●Analysis Example of the X-Ray Spectrometer

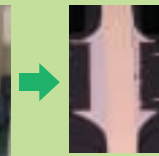


●Testing and Evaluating the Reliability of Lead-free Solder

We conduct reliability tests and evaluations for printed circuit boards using lead-free solder. Based on JIS and other standards, we perform mechanical strength tests, soldering suitability tests, environmental tests and heat resistance evaluations. We also create evaluation boards tailored to the requests of our customers and can provide comprehensive services consisting of tests, analysis and evaluation.

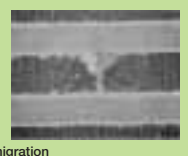
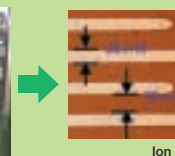
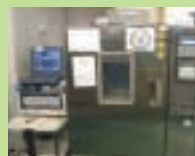
●Examples for Environmental Tests

Temperature cycle test



Whisker (Sn)

Constant temperature and humidity test



Ion migration