



## Predictive maintenance project based on condition

# Predictive Maintenance Project

### PROJECT

This type of maintenance is based on measuring different parameters, either while a machine is operating or shut down. The different parameters are used, up to a certain value, to indicate whether a machine is about to breakdown.

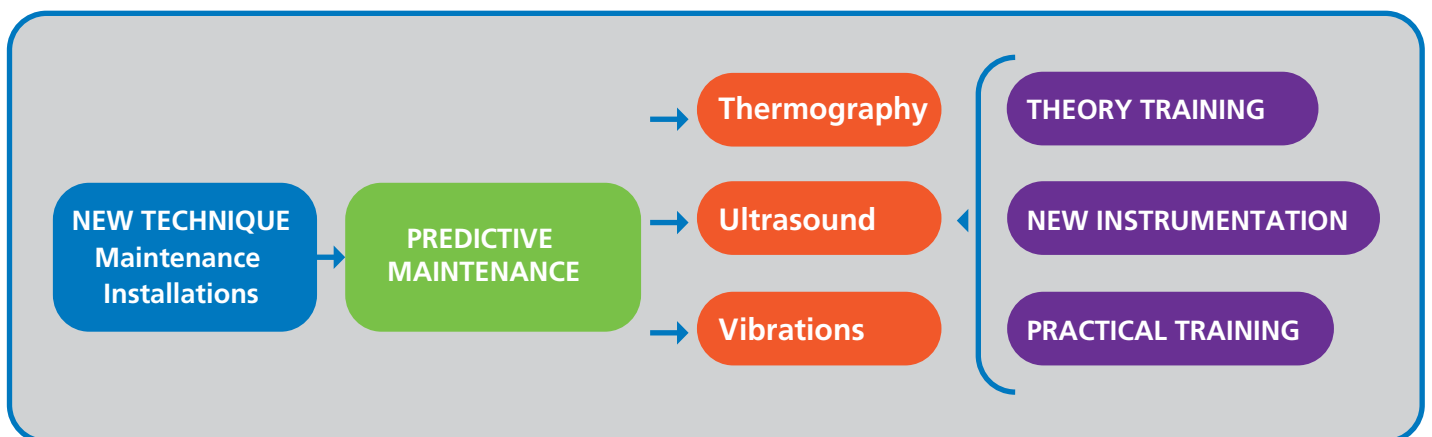
Predictive maintenance is an effective way to find out the useful life percentage reached by a piece or element.

These techniques also help to verify if a particular repair has restored the machine to an ideal operating level and, if not, the reasons why.

Therefore, this type of maintenance has clear advantages over those previously used, which includes:

- Elimination of unscheduled machine and equipment shutdowns.
- Reduction in shutdown times.
- Optimisation of personnel working hours.

The objective of this project is to modernise educational units implemented as a study programme in Vocational Training centres and to help participating companies to implement this type of maintenance, the training and instrumentation of which is rather expensive.



**Main Location:** Medina del Campo (Valladolid).

**Duration:** From the 21<sup>st</sup> of October 2011 to the 10<sup>th</sup> of October 2012.

**Total Budget in Euro:** 268,555.01 €.

**Aqualia:** 49,954.45 €.

## PROJECT PARTICIPANTS:

### Partners names:

**Leader:** CIFP Medina del Campo

**Other Partners:** aqualia gestión integral del agua  
IES Sierra de Leyre  
IES La Merced

CPIFP Pirámide  
SCOOPGRAL Agropecuaria ACOR  
Plastic Omnium S.A.



### Contact details:

Ignacio Huerga Fernández	Centro Integrado de Formación Profesional Medina del Campo	ihuergafernandez@yahoo.es
Patricio Hermosilla Olmos	aqualia gestión integral del agua	phermosillao@fcc.es
José María Latasa Cilveti	Instituto de Educación Secundaria Sierra de Leyre	jmlatasacilv@terra.es
Miguel Magaña Aparicio	Instituto de Educación Secundaria "La Merced"	miguelangelmagana@hotmail.com
Eloy Zuriguel López	Centro Público Integrado de Formación Profesional Pirámide	innovacion@cpifppiramide.com
Rodrigo García Bernardo	SDAD. COOP. GRAL. Agropecuaria ACOR	rgarcia@acor.es
Misael Llorente Pascual	Plastic Omnium Equipamientos Exteriores S.A.	mlllorente.pascual@plasticomnium.com

## GRANT:

### Support name and granting body:

Support from the Ministry of Education for innovation projects in vocational training.

**Project:** 2011/00846

**Grant:** Subsidy of 77% of the initial budget

**Total subsidy:** 249,254.40 €

**Aqualia's subsidy:** 38,364.93 €

