

**EXPERIENCE OF PREPARING «QUALITY MANAGEMENT»
BACHELOR DEGREE STUDENTS
IN TERM OF DISCIPLINE
«PROFESSIONAL ENGLISH»**

IRINA LOBANOVA

Physical methods of nondestructive testing
Institute of non-destructive testing

- Module structure
- Syllabus
- Aims and learning outcomes
- Problems
- Examples

COURSE STRUCTURE

- Course title "Professional English"
- Module 1 Quality Measurement
- Module 2 Measurement Testing Method
- Module 3 Function Testing
- Module 4 International Standard in Quality Management
- Profile: **Quality management**
- Training program: **Quality management in technological systems**
- Qualification (degree): **Bachelor**
- Year of entrance: **1, 2, 3, 4**
- Number of studies: **120 ECTS**
- Assessment: **Test/ Test/ Test/ Exam**

AIMS AND LEARNING OUTCOMES

- Find, select, describe, analyse necessary information (article, report, ...)
- Understand and use professional terms and glossary referring to quality management and nondestructive testing
- Apply various methods for quality product assessment
- Prepare articles or other documents of students research



PROBLEMS

- ↳Lack of knowledge of English
- ↳Lack of motivation for using/studying English



EXAMPLES

Quiz - before practice

1. The advantage of the liquid grinding is that
- a) The material of the abrasives is homogeneous
 - b) The depth of the slices can be measured
 - c) The nature of the liquid is the same
 - d) It makes difficult to use for the suspension
2. When the surface of the part has been cleaned properly, protection can be applied by
- a) Blasting
 - b) Polishing
 - c) Plating
 - d) All of the above



EXAMPLES

The 1) and expense of today's machines, equipment and tools dictate the use of fabrication and testing 2) that will 3) maximum reliability. Nondestructive testing 4) many of these procedures. Of the number of 5) testing procedures available, *Liquid Penetrant Inspection* is one that is 6) used. Liquid 7) methods are used to inspect metals for surface defects that are 8) to those revealed by magnetic particle inspection. 9) magnetic particle inspection, which can reveal 10) defects, liquid penetrant inspection reveals only those defects that are 11) to the surface. Four groups of liquid penetrants are 12) in use. Group 1 is a dye penetrant that is nonwater 13) . Group 2 is a water washable dye penetrant. Groups 2 and 3 are 14) penetrants. 15) follow the instructions given for each type of penetrant since there are some 16) in the procedures and safety 17) required for the various penetrants. Before 18) a liquid penetrant to inspect a weld, remove all slag, rust, paint, and 19) from the surface. When a specific finish is 20) , perform the LPI before the finish is made. This 21) you to detect defects that extend beyond the final 22) , but you must make the final liquid penetrant inspection after the 23) finish has been given.

*complex
procedural
sure
provider
destruct
widen
penetrate
similarity
like
surface
openly
present
wash
fluoresce
care
differ
caution
use
moisten
requirement
able
dimensional
specify*

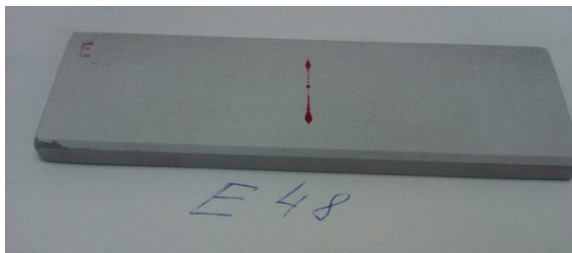
EXAMPLES

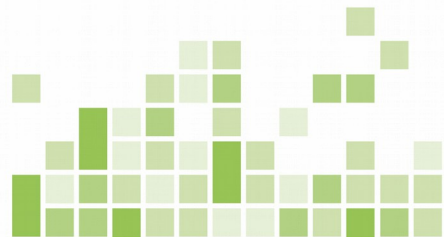
Look at the list of words and phrases below. Divide them into 8 boxes according to nondestructive testing methods

special tools excess dye pulse echo to distort
 fluorescent dye solution bleedout alternating magnetic field
 visual examiners to dust borescope acoustic emission
 magnifying glass penetrant radioactive isotope
 developer interruptions pressure vessels iron particles
 high-frequency sound waves to stress imaging media
 to accomplish permeability to fluoresce eddy currents
 dimensional features to gain access shadowgraph
 to induce receiver X-radiation listening devices

Visual and Optical Testing	<i>special tools, ...</i>
Penetrant Testing	<i>penetrant, ...</i>
Magnetic Particle Testing	<i>to dust, ...</i>
Electromagnetic Testing	<i>to induce, ...</i>
Radiography	<i>X-radiation, ...</i>
Ultrasonic Testing	<i>pulse-echo, ...</i>
Acoustic Emission Testing	<i>to stress, ...</i>
Leak Testing	<i>leak, ...</i>

EXAMPLES





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