KIT For Engineering Innovation	**KIT for Engineering Innovation Training Programs**	**Address**: 24 Al-gahez steet-Al Hay as Sabea-Nasr City-Cairo-Egypt] **Website**: www.kitegy.com **Phone**: 01012000780 – 01012000760

Course Title:	Liquid Penetrant Testing (LT) Level II
Category:	Non-Destructive Testing (NDT)
Course Code:	KIT-107
Duration:	6 days
Certificate:	Accredited certificate (ASNT) Level II for 5 years
Exams:	General Exam: 40 Q Specific Exam: 20 Q Practical Exam: Shall passed for at least 2 specimens & reporting.

Course Topics	
Day	**Title**
Day 1	- Basic fundamentals of electricity - Relationship of resistivity to electrical resistance - Relationship of material resistivity to material conductivity
Day 2	- Electromagnetic induction; self-inductance and mutual inductance - Inductance of eddy current coils - Properties of eddy current flow - Basic equipment
Day 3	- Generation of eddy currents - Fundamental operation of: impedance bridge instruments; crack detectors; conductivity meters; recording instruments; strip chart records and CRT recorders
Day 4	- Testing procedures - Probe types. - Directional properties of eddy current flow for each probe type. - Calibration. - Measuring resistivity; measuring thickness. - Measuring thickness of a non-conducting layer on a conductor. - Inspecting for defects
Day 5	- Practical
Day 6	- Theoretical exam