

LC Higher Level Engineering Study Guide 2020

Q.	Topic	Resources	Web
1A	General Engineering (Compulsory)	<u>Any and All</u> This question encompasses all areas of the course, (including safety).	https://www.studyclix.ie/subjects/leaving-certificate/higher/engineering http://www.practicalstudent.com/engineering.shtml https://sites.google.com/site/gobanengineeringnotes/home/
1B	Special Topic H-Level only (Compulsory)	Autonomous Vehicle Technology. Info in Handout	https://d6aec186-962a-4ee7-8711-ab3eb7a161bc.filesusr.com/ugd/d24da2_68af84a35f1345e3889726ef98587128.pdf
2	Mechanical Testing of Materials	<u>P. 122-143</u> Tensile, Impact, Hardness & NDT	http://hcrosscompany.com/general/testing.htm
3	Iron & Steel	<u>P. 46-65</u> Microstructures & Heat Treatments	http://en.wikipedia.org/wiki/Iron https://en.wikipedia.org/wiki/Steel
4	Alloys	<u>P. 33-45</u> Copper – Nickel Lead – Tin Cadmium – Bismuth	http://www.practicalstudent.com/subjects/eng/teds.shtml https://sites.google.com/site/gobanengineeringnotes/structure-of-metals/thermal-equilibrium-diagram
5	Welding	<u>P. 310-344</u> Types of Welding Equipment & Terms	http://en.wikipedia.org/wiki/Welding
6	Polymers	<u>P. 178-202</u> Polymerisation Types of moulding	http://www.pslc.ws/macrog/kidsmac/index.htm
7	Machining	<u>P. 203-296</u> Metal Cutting	http://www.silentengineer.com/question-7/4582666658
8	New Technologies	<u>P. 345-362</u> Mechanisms & Electronics	http://www.mekanizmalar.com/ http://electronics.howstuffworks.com/solid-state-electronics-channel.htm

Need Past Papers & Answers? Click here:

<https://www.examinations.ie/exammaterialarchive/>

Exam Strategy (suggested)

- You must answer **Q1. A & B** and **any 4** other questions in **3 hrs.**
- So, effectively 6 questions in 3 hours = **30 mins each.**
- With 5 mins to read and 5 mins to review that leaves **20 mins** to answer.