At Junior Certificate level the student can:

Demonstrate knowledge of engineering materials, equipment, processes, and workshop safety

**Learning Targets** - This has been demonstrated by your ability to:

1. State rules for safe and correct use of specified tools and procedures  
2. Observe and comply with workshop rules  
3. Identify typical measuring tools and measuring devices in everyday classroom use  
4. Recognise common engineering metals and plastics  
5. Identify plastics and metals in everyday use in the environment  
6. Suggest different uses for common engineering metals and plastics  
7. Suggest reasons for choices of material for everyday purposes, e.g. nuts and bolts/cars/drill bits/buses  
8. Identify basic metalwork hand tools  
9. Identify workshop machines  
10. List different joining methods (nuts and bolts/solder/rivets/ adhesive etc.)  
11. Suggest reasons for choice of joining method  
12. Suggest appropriate finishes for different jobs

Refer also to: English, Art, Materials Technology: Wood, Technical Graphics, Maths, Science