ICATT APPRENTICESHIP PROGRAM TRAIN.RETAIN.GROW.	Information
Date:	Analysis of the standard designation and strength class

Exercise 1:

You are given a bolt. The bolthead says ISO 4017 – M8 x 30 – 5.6

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a) Review the description of the bolt ISO 4017 – M8 x 30 – 5.6
b) Explain in detail what 5.6 means
c) In addition, explain the property class 8.8

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TB page 468, DIN ISO 4017 – check on page 217

- ISO = Type of standard and short title (International Organization for Standardization)
- 4017 = # standard => Hexagon head bolts with coarse threads, fully threaded
- M8 x 30 = Metric thread with a diameter d=8mm and a thread length of 30mm
- 5.6 = Property Class (see also page 216)

a) Explain in detail what 5.6 means

Page 216:

5 = Tensile strength Rm = 5*100N/mm² = 500 N/mm²

6 = Yield strength = Re = 5*6*10 N/mm² = 300 N/mm²

a) In addition, explain the property class 8.8

Page 216, if possible, read from the table:

Tensile strength Rm = 800N/mm²

Yield strength Re = 640N/mm²

Elongation at Fracture = 12%