

## ME102: SUBUNIT 2.2.5 Materials Response

The curve below shows the results of stress-strain measurements for an engineering specimen. Study the curve and consider the following questions.

1. What sort of testing apparatus would one use to obtain data such as that shown in the diagram?
2. What is the Young's modulus of the material?
3. What is the ultimate tensile strength of the material?
4. What is the strain (in percent) at which necking starts to occur for this engineering specimen?

