



## **Lesson 3 - Assignments**

1. Find a local structure under construction and try to identify the different materials used in construction.

- Is there concrete trucks or mixing station on-site?
- Identify if there is formwork with internal reinforcing placed inside.
- Take note of any structural steel framing. Are the connections bolted or welded?

2. Take a look at a building with exposed wood framing near the area where you live and find out the following.

- The type of wood used in construction and the most common shapes and sizes.
- What load-bearing elements of the structure are made of engineered wood.
- The connections between wood members and the type of fasteners.

3. Go stand in front of a masonry building where the units are visible on the outside.

- What is the direction of the head and bed joints?
- Are there lintels above doors and windows?
- In the case of masonry lintels, that is the shape and orientation of the used units.

You can send your assignment answers to us at [info@structuralengineeringbasics.com](mailto:info@structuralengineeringbasics.com) along with some pictures. You can also post parts of your assignments to the Structural Engineering Basics Course Facebook Group to share with everyone.