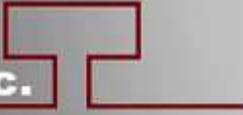


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PROJECT OF THE MONTH



All Steel was both proud and excited recently when we were awarded the contract to install a 500 kW wind turbine. The foundation, which was designed to minimize the above grade area loss, required 204 cubic yards of concrete.

The structure was fabricated in Germany and shipped to Central Illinois for installation. After the foundation had been given time to cure, the next step was to bolt the tower into place. A total of eighty 1¼" Ø bolts (40 each, inside and out), were needed to secure the 107' tower.



The nacelle, which typically contains the gear box, low- and high-speed shafts, and the generator was lifted and set on top of the tower.

The design of this tower required each of the five thousand pound, sixty foot long blades be installed separately. The last of the three, had to be rigged, lifted and bolted, maintaining a forty-five degree angle.

STRUCTURALLY SPEAKING

NOT ALL SIGNS ARE
CREATED EQUAL

DID YOU KNOW?

All Steel has always felt the way a structure is primed and painted is rarely given the importance it deserves. Following are excerpts from an article I found.

Steel is one of the most commonly used construction materials for buildings and major infrastructures in the world, and yet, because it is rich in carbon, it is also vulnerable to damages brought by environmental conditions, particularly when exposed to oxygen and moisture, and through time, structures based on steel can also degrade because of the continuous assault of the elements. To combat this degradation, steel structural painting is conducted to clean up and provide a protective barrier against damages. Doing so assures an extended life-span for the structure, avoiding the costly solution of replacing the damaged

According to the US Department of Energy, a 500 kW turbine in this area, running at typical capacity should generate 1.25 million kW hours, or enough electricity to power approximately 140 homes.



[Click here for more information](#)

QUESTION & ANSWER

Q- How often should a structure be re-painted, and is there a specific paint you recommend?

A- The duration can vary, but once you notice rust, take the time to repaint. Use a wire brush or medium grit sanding sponge to remove any rust or loose paint. Any spots that have been cleaned down to bare metal should be touched up with primer (we use a red oxide). Once the surface is clean, we suggest a quality grade, oil or water based industrial enamel. Take the time, whether rolling or spraying to evenly cover the entire surface. Keep in mind that wind will also be a factor if you paint out-of doors. Always check the weather report to ensure you've picked a couple calm, dry days to repaint.

[Click Here](#) to ask a question

BRAIN TEASER

You are a cook in a remote area with no clocks or other way of keeping time other than a four minute sandglass timer and a seven minute sandglass timer. (The kind you turn over - hourglass shaped) You do have a stove, however, with water in a pot already boiling. Somebody asks you for a nine-minute egg, and you know this person is a perfectionist and will be able to tell if you undercook or overcook the eggs by even a few seconds. What is the least amount of time it will take to prepare the egg? And how will you prepare it so that it is neither undercooked or overcooked?

structure altogether. Details of the steel structural painting project falls on the shoulders of the chosen contractor, which must see to it that the following requirements are in place before the project starts:

1. A quality control program that includes the equipment and instruments to be used, the inspection details, requirements sourcing, error-detection and correction procedures, among others.
2. An inspection plan to ensure the validity of the quality control program.
3. An application process plan that outlines in detail the processes to be conducted during steel structural painting, from surface preparation, actual painting, waste disposal, and any products or equipment that will be used.

Environmental conditions must be met during application, with the painting contractor observing proper procedures, use of the correct equipment, and the right thickness of coatings.

The aim of all this thorough preparation and implementation standards is to ensure that the steel structural painting process is effective and efficient, and eliminates the possibility of coating defects and application failure.

[Article Source](#)

TIPS FROM THE 19TH HOLE

Solution»

The answer is 9 minutes. First, flip both hourglasses over and drop the egg into the water. When the four minute timer runs out, flip it again. When the seven minute timer runs out, flip it over. The egg has been cooking seven minutes. Now when the four minute timer runs out again (after eight minutes) flip the seven minute timer back over. Since the seven minute timer has been running only a minute between flips, there's a minute worth of sand left. And when that minute runs out, the egg will have been cooking for exactly nine minutes.

If you have a question or would like more information on anything you've read please call the 800# at the top of the page

TESTIMONIALS

Dear Ted,

Thank you again for your efforts in the installation of the above referenced project. Your efforts in overcoming the obstacles of the delicate engineering problems; use of the crane on the narrow street Without one complaint from the municipality, neighbors in the area, or owners of the property; and completion on time working under adverse weather conditions. In short. . . a job well done!

If you are having trouble keeping putts on line, try spot putting, similar to the concept used in bowling. This means that (after reading the break on the putt) the focus is on the direction you want the ball to travel in the first 2-3 feet of the putt. You pick a spot that you want the ball to roll over in this range and then focus on executing this. This spot can be a discolored piece of grass, a spike mark or anything that gives you a target to aim at within 2-3 feet, the closer to the ball the better. This achieves the following objective which is key for good putting; you are not concentrating on the hole, so you are less likely to come out of your posture prematurely and look at the ball's final target, which causes miss-hit putts. Staying over the ball until the ball has been hit will improve your ball striking leading to more consistent putts. You achieve a much more consistent "roll" on the ball, which is the most important factor in good putting. Not "trying" to make putts, but instead hitting a solid putt to an intermediary target will make you a much better putter.



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