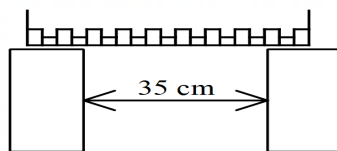


M7-M12 Integration Bridge Competition 2024

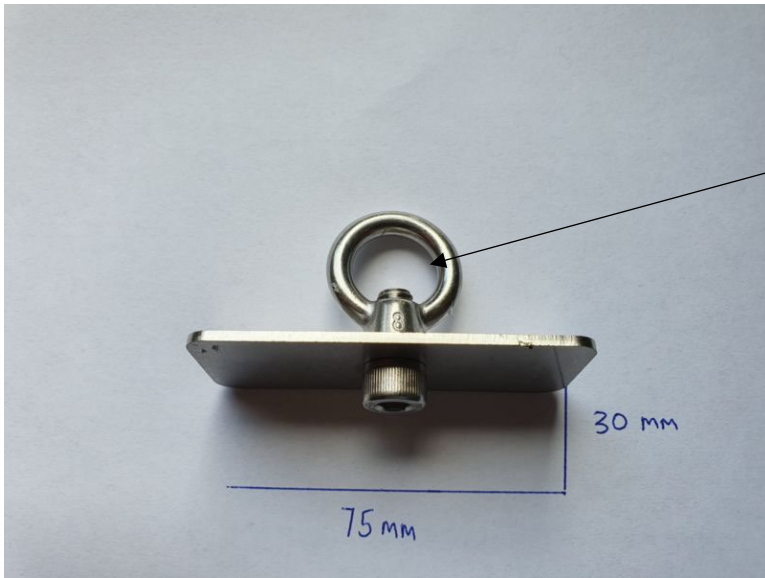
Rules and Conditions

A. Rules

1. The competition is open to school students from Years 5 to 12. Teams consist of up to four students. Only one entry (bridge) per team is permitted. Schools can enter any number of teams.
2. The bridge must be constructed using commercially available spaghetti. Tubular spaghetti, also known as bucatini, is not permitted. Spaghetti is a cylindrical form of pasta with a diameter not greater than 3mm, made from semolina or flour and water. The size of spaghetti is commonly denoted as “No. 4”.
3. The bridge can be constructed using PVA/white glue, hot glue, or super glue. Glue should be used to join the spaghetti only; **glue or any other material cannot be used to coat strands of spaghetti**. Two-pack epoxy glue is **not** permitted, nor is liquid nails (or anything equivalent).
4. The bridge must include the supplied loading hook as close to the midpoint of the bridge as possible or have a hole where the load hook can be inserted. The loading hook will be posted to the school coordinator after registration. The loading hook does not have to be secured to the bridge but needs to be easily inserted for weighing and testing.
5. The eye of the loading hook (the part to be connected to the testing rig) must be accessible and hang below the deck. Please refer to the image at the end of these Rules.
6. **The bridge must have a deck that is a minimum of 3 cm wide** and must be horizontal.
7. The test rig has a 35 cm wide gap, that the bridge must sit over. The bridge can be no longer than 45 cm. The bridge can sit lower than the top of the rig, but testing will be deemed to be completed once the bridge touches any part of the vertical section of the rig.



8. The total mass of the bridge including spaghetti, glue **and** loading hook must not exceed **300 grams**. If the bridge (and load hook) does exceed 300 g, it will be tested, but will be deemed ineligible to win a prize.
9. Testing will occur at Westlink M7 Eastern Creek Control Centre located at 101 Wallgrove Road, Eastern Creek on Friday 9 August 2024. Testing times will be confirmed closer to the day and will be within school hours. Teams will weigh their bridges at registration and identification tags allocated to the bridge.
10. Teams do not have to accompany their bridge to the testing day. If a team cannot attend a testing day, they are to proceed in the manner set out in clause 10 of the Terms and Conditions (set out directly below).



The eye must be on the **underside** of the bridge, as the rig will pull **down** on the bridge.

The load hook weighs approximately 67g.

B. Terms and Conditions

General

1. Information on how to enter and prizes form part of these Terms and Conditions. By entering this competition, entrants accept these Terms and Conditions. Entries must comply with these Terms and Conditions to be valid.
2. The Promoter is The Engineering Link Group Limited (ABN 87 089 560 690), of PO Box 229, North Lakes QLD 4509, contact number 07 3102 7394.

Eligibility

3. Entry is open to all students currently enrolled in years 5 through 12 in NSW.

Entry

4. To be eligible for entry, the relevant school coordinator must:
 - (a) complete and submit the online [expression of interest form](#) by 5:00pm on Friday 28 June 2024 (**EOI Form**); and
 - (b) complete and submit the team [registration form](#) confirming details of all teams and team members involved by no later than Friday 28 June 2024.
5. For the purposes of these Terms and Conditions, the "Coordinating Teacher's Name" (as nominated in the EOI Form) will be the school representative (**School Representative**).
6. The competition commences on 9:00am Monday 26 February 2024 (Australian Eastern Standard Time) and will conclude by 5:30pm on Friday 9 August 2024 (Australian Eastern Standard Time).
7. Limit applies of one (1) entry (being, one (1) bridge) per team with each team to consist of up to four students. Schools can enter any number of teams.
8. Testing will take place from 10:30am onwards on Friday 9 August 2024 (Australian Eastern Standard Time) (the **Test Date**) at the Westlink M7 Eastern Creek Control Centre located at 101 Wallgrove Road, Eastern Creek NSW 2766 (the **Test Location**).
9. Bridges must be present at the Test Date to be eligible to participate.
10. Teams do not have to accompany their bridge to the Test Date. If a team cannot attend the Test Location on the Test Date, submission of the bridge for testing will be accepted provided the School Representative:
 - (a) notifies the Promoter by email, by no later than Monday 5 August 2024, that the bridge will be posted or sent via courier and receives an email reply from the Promoter confirming the same;
 - (b) arranges and pays for any transport costs related to the posting or sending of the bridge;
 - (c) posts or sends the bridge to Westlink M7 Eastern Creek Control Centre, 101 Wallgrove Road (corner Wonderland Drive), Eastern Creek NSW 2766, reference 'M7-M12 Integration Bridge Competition'; and
 - (d) acknowledges and accepts that it is the responsibility of the school/team/School Representative to ensure the bridge is packaged securely.
11. In the event, a team submits a bridge for testing in accordance with clause 10 (above), the Promoter will take all reasonable care to safeguard the bridge once it has been received but takes

no responsibility if the bridge is damaged in transit or during the testing phase.

Prizes and draw

12. There is a maximum of 4 prizes (each a **Prize**) to be won with a total prize pool of AUD\$2000 on the Test Date. These include:
 - (a) First place (prize for the largest peak load) - \$1000;
 - (b) Second place (prize for the second largest peak load) - \$500;
 - (c) Third place (prize for the third largest peak load) - \$250; and
 - (d) Transurban Award (prize for the most creative construction) - \$250.
13. Each team is only eligible to win one Prize. For the avoidance of doubt, more than one (1) team from the same school is eligible to win a Prize (provided it is not the same team winning multiple prizes).
14. Depending on the uptake of the competition, the Promoter may hold more than one (1) testing session on the Test Date. Regardless of the number of testing sessions, the total prize pool remains as AUD\$2000.
15. On the Test Date, the winners of each of the first, second and third place Prize will be i) selected from all valid bridge submissions physically at the Test Location and ii) determined by engineers from The Engineering Link Group in accordance with the following testing criteria:
 - (a) Each bridge will be weighed and inspected prior to and after strength testing (where possible).
 - (b) If the bridge exceeds the weight limit or consists of materials not listed in points 2 and 3 in the "Rules", it will be disqualified. The weight limit is the maximum mass the bridge is permitted, which is 300g, including the load hook.
 - (c) Bridges will be tested via a custom-made rig and the bridge that withstands the most downward force is declared the winner (Strength Test) (and will be the recipient of Prize for first place).
 - (d) The bridge will not be interfered with while undergoing the Strength Test.
 - (e) The bridge will be tested to destruction.
 - (f) The bridges will be ranked according to the size of the peak load carried during the strength test.
 - (g) In the event of a tie, the lighter bridge will be ranked higher.
16. The Transurban Award (described in clause 12(d)) will be judged and awarded by Transurban.
17. The winners will be announced on the Test Date at the Test Location.
18. The Prize will be awarded to the school nominated on the EOI Form via cheque or direct deposit (as nominated by the School Representative) within 15 days of the Test Date. The winning school of the Prize will determine how the Prize is distributed.
19. If for whatever reason, there is no School Representative on the Test Date at the Test Location, the relevant school of the winning team will be notified in the following manner:

- (a) by email via the email address provided at the time of entry on the EOI Form; or
 - (b) if no email is registered, via the telephone number that was provided at the time of entry on the EOI Form, on or before 16 August 2024.
20. Where clause 19 applies, the School Representative of the winning team must confirm whether he or she accepts the Prize within 15 days of the Test Date (in accordance with clause 19 above) that it is the recipient of a Prize, or else the winning team/s will be taken to have forfeited it/its right to the Prize.
21. In the event that a Prize is forfeited, the value of that relevant Prize will form part of the prize pool for the annual M7-M12 Integration Bridge Competition in 2025.

Other

22. By entering this competition each school/team of the relevant school agrees to participate in promotional activities where the appropriate prior consent is sought. Media release forms will be e-mailed to all participating teams through the School Representative prior to the Test Date.
23. The judges' decision is final. The judges have the right to disqualify any bridge that, in their opinion, is in violation of the specifics or spirit of the competition rules. The judges have the right to accept any bridge that in their opinion is in the spirit of the competition rules.
24. The Promoter reserves the right to request verification of age, identity, residential address and any other information from any entrant or winner relevant to entry into or participation in this competition. Verification is at the discretion of the Promoter, whose decision is final. The Promoter reserves the right to disqualify any school who is participating in this competition, team/s or team member who provides false information, fails to provide information, conspires with others to gain an unfair advantage or who is otherwise involved in any way in manipulating, interfering or tampering with this competition.
25. These Terms and Conditions is governed by, and must be construed in accordance with, the laws in force in New South Wales, and the Promoter and any consumer who participates in this competition submit to the non-exclusive jurisdiction of the courts of that state in respect of all matters arising out of or relating to these Terms and Conditions, and the performance or subject matter of this competition.