

GUIDE BOOK DERRICK 2025



DERRICK
2025 Energy
Innovation
Action



OIL RIG DESIGN COMPETITION

In Collaboration With:



Organized By:





BACKGROUND

In line with **Derrick 2K25's** grand theme, "**Building the Energy Future: Contributions of Petroleum Engineering to Sustainability**," the **Oil Rig Design Competition (ORD)** highlights the vital role of petroleum engineers in shaping a sustainable energy future through innovation and engineering excellence.

Indonesia's vast maritime regions present diverse and demanding offshore conditions—ranging from deep waters to strong ocean currents and high environmental loads. These challenges call for the development of oil rigs that not only demonstrate structural resilience and operational safety but also embody the principles of **sustainability and efficiency**.

Through this competition, participants are encouraged to design next-generation offshore platforms that integrate technological **innovation, environmental responsibility, and economic feasibility**. The goal is to produce design concepts that balance energy demand with sustainable practices—ensuring the long-term viability of offshore oil and gas operations while contributing to the global energy transition.

THEME

BUILDING THE ENERGY FUTURE: CONTRIBUTIONS OF PETROLEUM ENGINEERING TO SUSTAINABILITY

VENUE, DATE AND STATUS

Preliminary Round

- Venue : Submitted via Website
- Date : 9th November 2025
- Status : Online

Final Round

- Venue : Online via Zoom Cloud Meeting
- Date : 6th December 2025
- Status : Online



- The DERRICK 2025 Oil Rig Design Competition will take place online via the ZOOM platform.
- Participants are in one team, where each team consists of 4 to 5 participants with one person as team leader.
- This competition is open to undergraduate diploma or engineering students from universities worldwide.
- Each team consists of students from the same university.
- Participants should complete and submit the official DERRICK 2025 registration form by the deadline.
- Each team must submit a blueprint for their oil rig design.
- Participants who have made payments cannot withdraw payments for any reason.
- The final round will be attended by the 8 best participants from the abstract and complete paper selection.
- Participants who are declared to have entered the final round must attend the presentation online. If they are unable to attend, the participant will be disqualified and will be replaced by a participant below them.
- The final participants will be given a briefing during the technical meeting which will be confirmed by the committee again.
- Universities may submit more than two teams for the design selection, but only a maximum of two teams will be selected for the final round.
- Delegates are not allowed to wear university logos or attributes during presentations; formal attire is required.
- Judges' decisions are final and cannot be challenged.
- 3D Video: Judging based on video likes on Derrick 2025's Instagram account (50%) and judging by the jury (50%)
- Competition results will be announced during the Awarding Night.
- Revisions to the names of members and teams and replacement of team members must be confirmed to the committee no later than before the registration period closes. If no confirmation of replacement is made, the participant concerned will not be recognized.



COMPETITION FORMAT

A. PRELIMINARY SUBMISSION

BLUEPRINT

1. Create the blueprint in English and submit it in .pdf format.
2. Judges will evaluate the blueprint during the preliminary session.
3. The report content should cover:
 - Title
 - Overview of the Field
 - Drilling Program
 - Rig Dimensions (Model & Actual Rig)
 - Features and Innovations
 - Specifications
 - Economical Analysis
4. Participants can include additional information.
5. Be creative with the media and design of the blueprint.
6. There are no page restrictions for the blueprint.
7. Submit the blueprint along with the registration form before the deadline to ordcderrick2k25@gmail.com, ensuring the file name matches the specified subject line, format name is `ORDC_DERRICK2025_TEAM NAME_BLUEPRINT`
8. Late submissions will result in a 10% penalty per day on the project report score, multiplied by the total delay duration

B. FINAL SUBMISSION

3D VIDEO DESIGN OVERVIEW

- Each team is required to create a 3D video overview based on their Final Report. This video will be used in the final round and shared on DERRICK 2024's Instagram to determine the favorite winner.
- Participants can utilize Lumion Software or similar tools, with a maximum video duration of 3 minutes.
- The video file size should not exceed 500 MB.
- Follow the specified 3D Video Design file name format `ORDC_DERRICK2025_TEAM NAME_3D VIDEO SUBMISSION`
- Submit the 3D Video Overview before the specified date to ordcderrick2k25@gmail.com.
- The presented 3D video must be identical to the final report submitted earlier. Failure to comply will result in a 20% point deduction, and any delays incur a 10% penalty
- Participants can take videos from othe videos only for certain purposes such as videos of tools or equipment



COMPETITION FORMAT

FINAL PRESENTATION

1. Use Microsoft PowerPoint (.ppt) for presentations, based on the submitted blueprint. If the presented file differs, points will be deducted.
2. Follow the specified presentation file name format ORDC_DERRICK2025_TEAM NAME_PPT SUBMISSION.
3. Submit the presentation in .ppt or .pptx format to ordcderrick2k25@gmail.com before the specified date.
4. Do not password-protect the submitted files; they must be accessible to DERRICK 2025's committee.
5. The team leader should be the sender, and verify each submission with our contact person.
6. Teams have 2 minutes for preparation, 10 minutes for presentation, and 30 minutes for Q&A with judges.
7. All team members must be present on the presentation day.
8. Arrive at the main room at least 15 minutes before the presentation; lateness is not accepted.
9. All members can answer questions during the Q&A session.
10. The presentation is closed.
11. The order of presentation will be announced in the Technical Meeting.

C. COMPETITION DAY RULES

1. The moderator will lead and guide the competition flow, with the timekeeper reminding participants of time limits.
2. Ensure a stable internet connection during your presentation.
3. Be in the waiting room at least 15 minutes before your presentation.
4. Tardiness exceeding 5 minutes results in a 10% score deduction, unless it's an official mistake by the DERRICK 2025 committee.
5. The committee will share the screen for the presentation file, and participants will operate it using a remote control.
6. Presentation time begins when both committee and participants are ready.
7. The timekeeper will signal the last two minutes of each session during presentation and Q&A.
8. The committee's timekeeping is absolute.
9. Delegates must wear formal attire; university logos or attributes are not allowed during presentations.



JUDGING CRITERIA

Preliminary Judging Criteria

- **Case Analysis** : ensuring that the rig being designed has sufficient capability, strength and safety to handle even the toughest conditions, while remaining economically efficient.
- **Technical Aspects** : Referring to the evaluation or design, such as the design of a drilling rig, includes a variety of technical elements that ensure the structure and system meet operational needs safely, efficiently, reliably and sturdicably.
- **Health, Safety, Security, an Environment** : Contains indicators designed in the blueprint to ensure that a drilling rig design, prioritizes safety, security, and environmental health, conservation.
- **Innovation Aspects** : In a design reflects the ability to produce new solutions that are creative, efficient, and have a positive impact. This aspect focuses on updating technologies, methods, or approaches to improve quality, performance, and sustainability.
- **Economic Aspects** : Parameters used to assess the efficiency, sustainability, and financial benefits of a project or design, such as a drilling rig.

Final Round Judging Criteria

1. **Innovation and Creativity (25%)**: The judges will evaluate how beneficial, compatible, and efficient your innovation is for a real offshore drilling platform.
2. **Presentation Delivery (25%)**: The judges will assess how effectively your team presented your rig model, including the interest, fluency, systematic nature of the presentation, the content and media used, time management, and team manners.
3. **Model and Field Analysis (20%)**: The judges will evaluate how well your team presented their oil rig platform and analyzed its suitability for the location, as well as the economic aspects of your rig model.
4. **Interactive and Problem Solving (30%)**: The judges will assess how interactive your team was during the question-and-answer session and how clearly and directly your team answered the judges' questions



TOURNAMENT OFFICIALS

- **Judges:** Each round will have 3 judges, each judges will have the privilege to determine whether the team's answer is correct or false. The judge's decision is final and cannot be sued after the moderator read the next question
- **Moderator:** There will be two moderators in the preliminary, semifinal, and final rounds. Moderators will read the questions, state the rules of the competition explicitly, and ask the judges to determine the correctness of the team's answer, declare score reward and deduction, and call out the team name who has the right to answer
- **Scorekeeper:** There will be at least one scorekeeper for each round. The scorekeeper will keep and record the official score for each team
- **Timekeeper:** A timekeeper is responsible for standby and notifying the time limits of each stage

ETHICS AND CONDUCT

1. Please be punctual
2. Participants are allowed to use their uniforms
3. Signal between team members and spectators are prohibited. Restricted signal including verbal signal, written signals, body movements, eye contact, and anything else are interpreted as signals by tournament officials
4. Violation of the signal rules will result in forfeiture of the opportunity to answer question. Repeat violations may result in disqualification
5. Any intimidation and physical contact from participant to another and tournaments official will result in disqualification
6. Any cheat action will also result in disqualification
7. Participants are prohibited from bringing cheat or cellphones



REGISTRATION

1. Registration fee for DERRICK 2025 for Smart Competition are :

- **Early Bird :**
 - i. 100.000 IDR per Team for Domestic Students
 - ii. USD 7 per Team for International Students
- **Normal :**
 - i. 125.000 IDR per Team for Domestic Students
 - ii. USD 8 per Team for International Students
- **Extend (if possible) :**
 - i. 150.000 IDR per Team for Domestic Students
 - ii. USD 10 per Team for International Students

2. The teams that are selected for the final round have to pay the remaining fees :

- **300.000 IDR per Team for Domestic Students**
- **USD 19 per Team for International Student**

3. Submit the payment receipt to the link that will be given via email after the announcement of preliminary round result and sent your payment through :

- **BNI 1408613699 (Muhammad Rehan)**
- **BRI 010701135855500 (Naila Adinda)**



KEY DATES

- Early Bird Registration : October 9th– October 12th, 2025
- Normal Registration : October 13th– October 19th, 2025
- Extend Registration : October 20th– October 26th, 2025
- Preliminary Distribution : October 27th, 2025
- Preliminary Submission : November 9th, 2025
- Announcement Finalist : November 16th, 2025
- Final Case Distribution : November 16th, 2025
- Final Submission : November 30th, 2025
- Technical Meeting : December 5th, 2025
- Competition Day : December 6th, 2025
- Awarding Night : December 7th, 2025

PRIZES AND AWARDS

The winners of DERRICK 2025 Smart Competition will be awarded money and certificates

<i>Champion</i>	Rp 2.500.000	+ E Certificate
<i>1st Runner Up</i>	Rp 1.500.000	+ E Certificate
<i>2nd Runner Up</i>	Rp 1.000.000	+ E Certificate
<i>2nd Runner Up</i>	Rp 500.000	+ E Certificate

CONTACT PERSON

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