

SKRIPSI

**ANALYSIS OF THE OIL AND GAS SAFETY IMPLEMENTATION AT
PONOROGO GAS STATIONS**



ULIL ABSHOR

422021731012

UNIDA

**OCCUPATIONAL SAFETY AND HEALTH STUDY PROGRAM
FACULTY OF HEALTH SCIENCES, UNIVERSITAS DARUSSALAM**

GONTOR

2025

APPROVAL SHEET
THESIS DEFENSE

It is hereby stated that the thesis proposal with the title:

**"ANALYSIS OF THE OIL AND GAS SAFETY IMPLEMENTATION AT
PONOROGO GAS STATIONS"**

Written by:

Ulil Abshor
NIM 422021731012

It has been reviewed and recommended to meet scientific standards, in terms of
both scope and quality.

It has been approved to presented on: 12 February 2025

Supervisor

Rindang Diannita S.K.M., M.Kes.
NIY. 180728



Head Of Occupational Safety and Health Departement
Faculty of Health Science, Universitas Darussalam Gontor



Aisy Rahmania, M.KKK.
NIY. 200766

VALIDITY SHEET

It is hereby stated that the thesis with the title:

ANALYSIS OF THE OIL AND GAS SAFETY IMPLEMENTATION AT PONOROGO GAS STATIONS

Written by:

Ulil Abshor

NIM. 422021731012

Has been tested and approved & before the Thesis Examiner Board

On Monday, 12 February 2025

Board of Examiners

Chief Examiner

Rindang Diannita S.K.M., M.Kes.
NIY. 180728



Examiner I

Dr. Sisca Mayang Phuspa, M.Sc.
NIY. 150505



Examiner II

Aisy Rahmania, M.KKK.
NIY. 200766



Acknowledged by,

Head Of Occupational Safety and Health Departement
Faculty of Health Science, Universitas Darussalam Gontor



Aisy Rahmania, M.KKK.
NIY. 200766

ABSTRACT
ANALYSIS OF THE OIL AND GAS SAFETY IMPLEMENTATION AT
PONOROGO GAS STATIONS

Ulil Abshor
NIM.422021731012

Gas stations are places that have a high level of fire risk (*Major Hazard Accident*), that is, if an accident occurs, it will cause very large losses, both loss of human life and other material losses. An accident at one of the gas stations has occurred in Ponorogo Regency, namely the Sinduro gas station on Ahmad Yani street, Surodikraman village, Ponorogo Regency. The purpose of this study is to find out the implementation of oil and gas safety at Ponorogo gas stations. This research is a qualitative descriptive research, through interviews and observations using a checklist for the implementation of oil and gas safety at Ponorogo gas stations. This research was carried out in November-December 2024. The total number of gas stations in Ponorogo is 22 gas stations, in this study there are 4 gas stations with a division using *cluster sampling*. The results of the data analysis in this study for all gas stations in Ponorogo can be categorized as good, but it needs to be improved at several gas stations related to the company's electrical installation, the availability of sand tanks and their contents and the use of plastic jerry cans when filling fuel. The suggestion in this study is to carry out routine control of the company's facilities and safety systems and eliminate the use of plastic jerry cans in fuel filling and replace them with metal jerry cans.

Keywords: Gas station, oil and gas, risk, safety implementation

ABSTRACT
ANALISIS PENERAPAN KESELAMATAN MIGAS DI SPBU
PONOROGO
Ulil Abshor
NIM.422021731012

SPBU merupakan tempat yang memiliki tingkat risiko kebakaran besar (*Major Hazard Accident*), yaitu apabila terjadi kecelakaan akan menimbulkan kerugian yang sangat besar, baik kerugian nyawa manusia maupun kerugian material lainnya. Kecelakaan di salah satu SPBU pernah terjadi di Kabupaten Ponorogo yaitu SPBU Sinduro jalan Ahmad Yani, kelurahan Surodikraman, Kabupaten Ponorogo. Tujuan penelitian ini adalah mengetahui penerapan keselamatan migas di SPBU Ponorogo. Penelitian ini merupakan penelitian deskriptif kualitatif, melalui wawancara dan observasi menggunakan *checklist* penerapan keselamatan migas di SPBU Ponorogo. Penelitian ini dilaksanakan pada bulan November-Desember 2024. Jumlah total SPBU di Ponorogo seluruhnya adalah 22 SPBU, dalam penelitian ini yang diteliti berjumlah 4 SPBU dengan pembagian menggunakan *cluster sampling*. Hasil analisis data dalam penelitian ini untuk seluruh SPBU di Ponorogo dapat dikategorikan baik, namun perlu perbaikan di beberapa SPBU terkait instalasi listrik perusahaan, tersedianya bak pasir beserta isinya dan penggunaan jerigen plastik saat pengisian BBM. Saran dalam penelitian ini yaitu untuk melakukan kontrol rutin terhadap fasilitas dan sistem keselamatan perusahaan serta meniadakan penggunaan jerigen plastik dalam pengisian BBM dan menggantinya dengan jerigen berbahan logam.

Kata kunci: SPBU Ponorogo, migas, risiko, penerapan keselamatan

ACKNOWLEDGEMENT

Praise be to Allah SWT, the Lord of the universe, who has given all forms of enjoyment in the form of physical and spiritual health so that the author can easily work on and complete a thesis proposal with the title "ANALYSIS OF THE IMPLEMENTATION OF OIL AND GAS SAFETY AT PONOROGO GAS STATIONS".

This thesis proposal was prepared as one of the requirements to complete the final study project at the Occupational Safety and Health Study Program, Faculty of Health Sciences, Darussalam Gontor Ponorogo University.

The author realizes that writing this thesis proposal will not succeed without guidance and assistance from various parties, both material and spiritual. For that with all humility, the author would like to thank you very much:

1. Mr. apt. Amal Fadholah, S.Si., M.Si., as the Dean of the Faculty of Health Sciences, Universitas Darussalam Gontor.
2. Mrs. Aisy Rahmania, M.KKK., as the Head of the Occupational Safety and Health Study Program at Universitas Darussalam Gontor.
3. Mrs. Rindang Diannita, S.K.M., M.Kes., as a supervisor who has guided and provided many suggestions and inputs to this research
4. Mrs. Dr. Sisca Mayang Phuspa, M.Sc., as well as examiner 1 who has tested and provided a lot of input on this study.
5. Mrs. Aisy Rahmania M.KKK., as examiner 2 who has tested and provided a lot of input on this research.
6. All lecturers and staff of the Occupational Safety and Health Study Program of Universitas Darussalam Gontor who have given a lot of knowledge and experience to the author during the lecture here which God willing, will be very useful in the future, and hopefully it is worth worshiping before Allah SWT and becoming charity for everyone, Aamiin.
7. My two parents, Fatchurroman and Qurratul A'yun, who have supported and always prayed in every prayer for the smooth running of the writer who is

studying science, may he always be under the protection of Allah SWT and be given health and a long life. Aamiin.

8. All gas station staff in Ponorogo. which has been very helpful during the research.
9. Writer's friends in the Occupational Safety and Health Study Program in Universitas Darussalam Gontor, thank you for being a support for the writer during the writing of this thesis, good luck always.

Writer friends in the Occupational Safety and Health Study Program in Universitas Darussalam Gontor, thank you for being a support for the writer during the writing of this thesis, good luck always.



AUTHENTICITY STATEMENT

It is hereby declared by,

Name : Ulil Abshor
NIM : 422021731012
Faculty : Health Science
Study Program : Occupational Safety and Health

Thesis Title : Analysis of the oil and gas safety implementation at Ponorogo gas station

I sincerely declare that the research contained in this thesis is my own work and does not belong to anyone else. This thesis has never been published before, except for some parts with original references.

If in the future it is found that this work is plagiarised. I am ready to be given administrative and academic sanctions.

Ponorogo, 12 February 2025
Writer,



Ulil Abshor
NIM.422021731012

UNIDA
GONTOR
UNIVERSITAS DARUSSALAM GONTOR