

MOHAMMAD RHEZA ALBIN WAHYUDI

Semarang, Central Java, Indonesia, 50197 • +6289 7537 6677 • rheza4294@gmail.com

<https://linkedin.com/in/rhezaarab>

Detail-oriented and highly analytical Chemical Engineering professional with over 5 years of experience in QC/QA, Laboratory Analysis, and Process Engineering. Proven track record in highly regulated of ensuring product integrity, maintaining strict compliance with industry and safety standards, and optimizing production processes. Adept at conducting rigorous chemical, troubleshooting deviations, and executing Root Cause Analysis (RCA). Eager to leverage a strong engineering foundation, technical expertise in mass and energy balance, P&ID analysis, and operational efficiency as a Process Engineer, and a commitment to operational excellence to drive quality assurance and process safety within the various industrial sectors. Well educated about ISO 9001

Experience

LABORATORY TECHNICIAN - MICROBIOLOGY | PT. PHAPROS TBK | SEMARANG CITY MAR 2021 – MAR 2025

- Conducted routine microbiological testing on raw materials, intermediate products, and finished pharmaceutical goods in compliance with Good Manufacturing Practices (GMP).
- Maintained cleanroom environments and performed environmental monitoring of production areas to ensure sterility and safety standards.
- Prepared media, managed microbial cultures, and executed equipment calibration and sterilization processes.
- Documented analytical results accurately and reported non-conformances, assisting in root-cause analysis and corrective actions.

QC ANALYST | PT BONANZA MEGAH LTD | SEMARANG CITY, CENTRAL JAVA FEB 2020 – FEB 2021

- Conducted physical and chemical analyses of materials using advanced titration, spectroscopy, and chromatography techniques to verify product integrity.
- Collaborated with the production team to troubleshoot chemical processing issues, reducing material waste and optimizing production timelines.
- Documented daily analytical test results in compliance with strict regulatory frameworks, ensuring accurate traceability for all batches.
- Assisted in the evaluation of new raw material suppliers by performing benchmark quality assessments

Education

BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING | WAHID HASYIM UNIVERSITY SEMARANG

3.58/4.00 GPA. Relevant Coursework: Unit Operations, Chemical Reaction Engineering, Process Control, Thermodynamics, Plant Design, Heat & Mass Transfer.

- Research : The effectiveness of Eco Enzyme on Chemical Oxygen Demand (COD) levels in Pharmaceutical Industry Liquid Waste
- Internship : Efficiency of mass balance and heat balance of fluidized bed dryer in drying granules of PT Phapros Tbk
- Thesis : Pre-Design of Benzyl Alcohol Factory from benzyl chloride and water with hydrolysis reaction process with capacity of 25,000 tons/year

Skill

- **Technical:** Process Simulation, Mass & Energy Balance, P&ID/PFD Interpretation, Equipment Validation (IQ/OQ/PQ), Titration, Spectrophotometry, Chromatography (HPLC/GC), Microbial Testing, ISO 9001
- **Analysis:** Quality Assurance (QA/QC), Root Cause Analysis (RCA), Laboratory Instrumentation, Data Analysis.
- **Software:** Aspen HYSYS/Plus (Basic), MatLab, Microsoft Office Suite, SAP/ERP Systems.
- **Soft Skills:** Leadership, Critical Thinking, Project Management, HSE (Health, Safety, and Environment) Awareness.

2311356

Nomor Ijazah Nasional : 061027242012025100018
(National Certificate Number)



YAYASAN WAHID HASYIM SEMARANG
UNIVERSITAS WAHID HASYIM

Berdasarkan Surat Keputusan Menteri Pendidikan Nasional Republik Indonesia Nomor 124/D/0/2000
dan terakreditasi Unggul sesuai Surat Keputusan BAN-PT Nomor 2104/SK/BAN-PT/Ak/PT/XI/2024
*Based upon the Decree of the Ministry of National Education of the Republic of Indonesia Number 124/D/0/2000
and accredited Excellent based on Decree of National Accreditation for Higher Education Number 2104/SK/BAN-PT/Ak/PT/XI/2024*

I J A Z A H

diberikan kepada :
hereby certifies that

MOHAMMAD RHEZA ALBIN WAHYUDI

NIM (Student Registration Number) : 20103021009

NIK/Paspor (Resident Registration Number/ Passport) : 3374082205010001

Tempat, Tanggal Lahir (Place, Date of Birth) : Semarang, 22 Mei 2001 (May 22, 2001)

telah menyelesaikan Program Sarjana tanggal 15 Maret 2025 pada Program Studi Teknik Kimia yang terakreditasi Baik Sekali
having passed all the examinations prescribed by the By-laws on March 15, 2025 at Chemical Engineering Study Program accredited Very Good

berdasarkan Surat Keputusan BAN-PT Nomor 7105/SK/BAN-PT/Ak/S/X/2022
based on Decree of National Accreditation for Higher Education Number 7105/SK/BAN-PT/Ak/S/X/2022

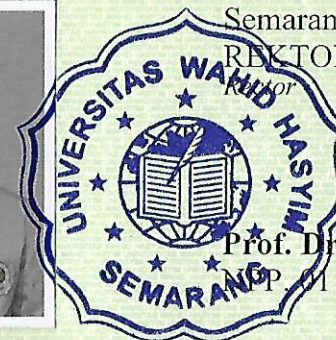
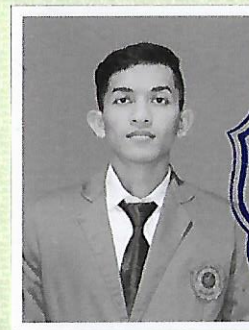
dan kepadanya diberikan gelar
has been awarded a

SARJANA TEKNIK (S.T.)
Bachelor of Engineering

beserta segala hak dan kewajiban yang melekat pada gelar tersebut.
in token whereof the Common Seal of The University is hereunto affixed.

DEKAN
Dean

Dr. IMAM SYAFA'AT, S.T., M.T.
NIP. 197507262005011001



Semarang, 23 April (April 23) 2025
REKTOR

Prof. Dr. H. MUDZAKKIR ALI, M.A.
P. 01 99 0 0003



YAYASAN WAHID HASYIM SEMARANG

UNIVERSITAS WAHID HASYIM

TRANSKRIP AKADEMIK ACADEMIC TRANSCRIPT



Nama Lengkap (Full Name) : MOHAMMAD RHEZA ALBIN WAHYUDI
 N I M (Index Number) : 20103021009
 Tempat, Tgl Lahir (Place, Date of birth) : SEMARANG, 22/05/2001
 Nomor (Number) : 0000181
 Nomor Ijazah Nasional (National Certificate Number) : 061027242012025100018

Keputusan Pendirian PT (Certificate of Establishment)
 Fakultas (Faculty)
 Program Pendidikan (Education Program)
 Program Studi (Major)
 Status (Status)

: SK. MENDIKNAS NO. 124/D/0/2000
 : TEKNIK / Engineering
 : SARJANA / Bachelor
 : TEKNIK KIMIA / Chemical Engineering
 : TERAKREDITASI BAIK SEKALI BAN PT / Accredited Very Good by BAN PT

No	MATA KULIAH Subject	NILAI Grade	BOBOT Weight	KREDIT Credit	MUTU Value	No	MATA KULIAH Subject	NILAI Grade	BOBOT Weight	KREDIT Credit	MUTU Value
1	PENDIDIKAN PANCASILA State Ideologi Education	A	4.00	2	8.00	32	OPERASI TEKNIK KIMIA 4 Unit Operation 4	AB	3.50	3	10.50
2	PENDIDIKAN AGAMA Religion Education	A	4.00	2	8.00	33	PROSES INDUSTRI KIMIA 1 Chemical Industrial Processes 1	AB	3.50	2	7.00
3	PENDIDIKAN KEWARGANEGARAAN Civics Education	A	4.00	2	8.00	34	PROSES INDUSTRI KIMIA 2 Chemical Industrial Processes 2	B	3.00	2	6.00
4	BAHASA INDONESIA Indonesian Language	AB	3.50	2	7.00	35	FENOMENA PERPINDAHAN Transport Phenomena	B	3.00	3	9.00
5	FISIKA 1 Physics 1	B	3.00	2	6.00	36	TEKNIK REAKSI KIMIA 1 Chemical Reaction Engineering 1	AB	3.50	2	7.00
6	FISIKA 2 Physics 2	AB	3.50	2	7.00	37	TEKNIK REAKSI KIMIA 2 Chemical Reaction Engineering 2	AB	3.50	2	7.00
7	KALKULUS 1 Calculus 1	A	4.00	3	12.00	38	APLIKASI PEMROGR KOMPUTER DALAM TEKNIK KIMIA Application of Computer Program in Chemical Engine	B	3.00	3	9.00
8	KALKULUS 2 Calculus 2	AB	3.50	3	10.50	39	UTILITAS Utility	AB	3.50	3	10.50
9	KIMIA ANALISA Analytical Chemistry	AB	3.50	3	10.50	40	PENGENDALIAN PROSES Process Control	B	3.00	2	6.00
10	KIMIA DASAR Basic Chemistry	A	4.00	2	8.00	41	PERANCANGAN PABRIK KIMIA 1 Chemical Plant Design 1	AB	3.50	2	7.00
11	KIMIA ORGANIK Organic Chemistry	AB	3.50	3	10.50	42	PERANCANGAN PABRIK KIMIA 2 Chemical Plant Design 2	B	3.00	2	6.00
12	KIMIA FISIKA Physical Chemistry	B	3.00	2	6.00	43	REAKTOR Reactor	AB	3.50	2	7.00
13	AZAS TEKNIK KIMIA 1 Chemical Engineering Principles 1	B	3.00	3	9.00	44	EKONOMI TEKNIK KIMIA Chemical Engineering Economics	AB	3.50	2	7.00
14	AZAS TEKNIK KIMIA 2 Chemical Engineering Principles 2	AB	3.50	2	7.00	45	PERANCANGAN ALAT PROSES Process Equipment Design	B	3.00	3	9.00
15	BAHAN KONSTRUKSI TEKNIK KIMIA Chemical Engineering Material Construction	AB	3.50	2	7.00	46	PRAKTIKUM BIOPROSES Bioprocess Practice	A	4.00	2	8.00
16	MATEMATIKA TEKNIK KIMIA 1 Chemical Engineering Mathematics 1	A	4.00	2	8.00	47	PRAKTIKUM PROSES TEKNIK KIMIA Chemical Engineering Process Practice	AB	3.50	2	7.00
17	MATEMATIKA TEKNIK KIMIA 2 Chemical Engineering Mathematics 2	AB	3.50	3	10.50	48	PRAKTIKUM OPERASI TEKNIK KIMIA Unit Operation Practice	A	4.00	2	8.00
18	TERMODINAMIKA I Thermodynamics 1	AB	3.50	3	10.50	49	TEKNOLOGI PENGOLAHAN PATI Starch Processing Technology	A	4.00	2	8.00
19	TERMODINAMIKA II Thermodynamics 2	B	3.00	3	9.00	50	TEKNOLOGI PENGENDALIAN PENCEMARAN UDARA Air Pollution Control Technology	A	4.00	2	8.00
20	KESELAMATAN KERJA Work Safety	A	4.00	2	8.00	51	TEKNOLOGI PENGELOLAAN LIMBAH PADAT Solid Waste Treatment Technology	A	4.00	2	8.00
21	PERPINDAHAN PANAS Heat Transfer	C	2.00	2	4.00	52	PENGOLAHAN LIMBAH B3 Hazardous Waste Management	A	4.00	2	8.00
22	METODOLOGI PENELITIAN Research Methodology	B	3.00	3	9.00	53	ANALISA MENGENAI DAMPAK LINGKUNGAN Environmental Impact Assessment	A	4.00	2	8.00
23	PRAKTIKUM KIMIA ANALISA Analytical Chemistry Practice	AB	3.50	2	7.00	54	PROSES PRODUKSI PANGAN HALAL Halal Food Production Process	A	4.00	2	8.00
24	PRAKTIKUM KIMIA ORGANIK Organic Chemistry Practice	A	4.00	2	8.00	55	KULIAH KERJA NYATA Study Service scheme	A	4.00	3	12.00
25	PRAKTIKUM KIMIA FISIKA Physical Chemistry Practice	AB	3.50	2	7.00	56	PENELITIAN DAN SEMINAR Research and Seminar	A	4.00	3	12.00
26	BIOPROSES Bioprocess	A	4.00	2	8.00	57	KERJA PRAKTEK Job Training	A	4.00	2	8.00
27	PENGANTAR ILMU LINGKUNGAN Introduction of Environmental Science	AB	3.50	2	7.00	58	BAHASA INGGRIS English	A	4.00	2	8.00
28	MANAJEMEN INDUSTRI Industrial Management	A	4.00	2	8.00	59	FILSAFAT AGAMA Religion Philosophy	AB	3.50	2	7.00
29	OPERASI TEKNIK KIMIA 1 Unit Operation 1	A	4.00	2	8.00	60	ILMU SOSIAL BUDAYA DASAR Basic Social and Culture Science	A	4.00	2	8.00
30	OPERASI TEKNIK KIMIA 2 Unit Operation 2	A	4.00	3	12.00	61	KEWIRAUSAHAAN Entrepreneurship	AB	3.50	2	7.00
31	OPERASI TEKNIK KIMIA 3 Unit Operation 3	A	4.00	3	12.00	62	SKRIPSI Thesis	AB	3.50	5	17.50

JUDUL SKRIPSI:

Pra-Rancangan Pabrik Benzyl Alcohol dari Benzyl Chloride dan Air Kapasitas 25.000 Ton/Tahun

THESIS TITLE:

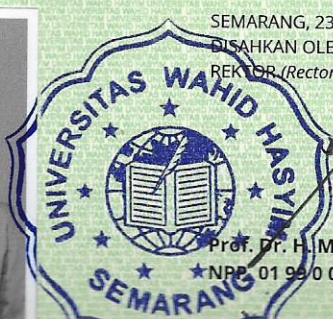
Preliminary Design of Benzyl Alcohol Factory from Benzyl Chloride and Water with Capacity of 25,000 Tons/Year

Jumlah (Total)	145	519
Indek Prestasi Kumulatif (Grade Point Average)	3.58	
Tanggal Lulus (Date of Graduate)	15/03/2025	
Predikat Kelulusan (Predicate of Graduate)	Dengan Pujian / Cumlaude	

DEKAN (Dean)

Imam Syafa'at

Dr. Imam Syafa'at, S.T., M.T.
NIP. 197507262005011001



SEMARANG, 23 APRIL 2025
DISAHKAN OLEH (Legalized by)
REKTOR (Rector)

Prof. Dr. H. Mudzakkir Ali, M.A.
NIP. 01 99 0 0003



SURAT KETERANGAN
No. 028/S.Kt/A.SDM/II/25

Yang bertanda tangan dibawah ini :

Nama : Helmy Hadi Hidayat
Jabatan : Manager HC Operasional dan Hubungan Industrial
Perusahaan : PT Phapros Tbk
Alamat : Jl. Simongan 131 Semarang

Menerangkan bahwa,

Nama : Mohammad Rheza Albin Wahyudi
Tempat/Tanggal Lahir : Semarang, 22 Mei 2001
Alamat : Perum Graha Permata Muktiharjo No.54 RT/RW
010/012 Muktiharjo Kidul, Pedurungan, Semarang,
Jawa Tengah

Adalah karyawan dengan status PKWT PT Phapros Tbk Semarang yang bekerja sebagai Laboran Mikrobiologi di Divisi Pengendalian Mutu (QC) terhitung sejak 01 Maret 2021 s/d 28 Februari 2025

Per tanggal 01 Maret 2025 yang bersangkutan tidak bekerja lagi di PT Phapros Tbk, karena telah habis kontrak.

Selama bekerja yang bersangkutan melaksanakan tugasnya dengan baik.

Demikian Surat Keterangan ini dibuat agar dapat dipergunakan sebagaimana mestinya.

Semarang, 03 Februari 2025

Helmy Hadi Hidayat
Manager HC Operasional dan Hubungan Industrial



SURAT KETERANGAN

No.017/S.KVHC-PP/IV/2024

Yang bertanda tangan di bawah ini :

Nama : **Nurdiah Nilawati, S.E.**
Jabatan : **Learning Officer**
Perusahaan : **PT Phapros Tbk**
Alamat : **Jl. Simongan 131 Semarang**

Dengan ini menerangkan bahwa :

Nama : **Muhammad Rheza Albin Wahyudi**
Institusi : **Universitas Wahid Hasyim**
Jurusan : **Teknik Kimia**

Telah selesai melaksanakan Magang di PT Phapros Tbk di Departemen Produksi pada tanggal 1 – 31 Agustus 2023 sebagai Process Engineer

Demikian surat keterangan ini dibuat untuk dapat dipergunakan sebagaimana mestinya.

Semarang, 30 April 2024

Nurdiah Nilawati, S.E.
Learning Officer

nr

10654038



BADAN NASIONAL
SERTIFIKASI PROFESI
INDONESIAN PROFESSIONAL
CERTIFICATION AUTHORITY

SERTIFIKAT KOMPETENSI CERTIFICATE OF COMPETENCE

No. 20110 8131 2 0000751 2022

Dengan ini menyatakan bahwa,
This is to certify that,

Mohammad Rheza Albin Wahyudi

No. Reg. IPK 1865 00428 2022

Telah kompeten pada bidang :
Is competent in the area of :

Operator Kimia Industri
Industrial Chemical Operators

Dengan Kualifikasi / Kompetensi :
With Qualification / Competency :

KKNI Level II pada Kompetensi Keahlian Kimia Industri
KKNI Level II in Industrial Chemical Competency

Sertifikat ini berlaku untuk : 3 (tiga) tahun
This certificate is valid for : 3 (three) years

Semarang, 11 Januari 2023

Atas Nama Badan Nasional Sertifikasi Profesi
On Behalf of Indonesian Professional Certification Authority

Lembaga Sertifikasi Profesi SMK Yayasan Pharmasi Semarang
Professional Certification Body of SMK Yayasan Pharmasi Semarang



BNSP BNSP BNSP BNSP BNSP BNSP BNSP BNSP BNSP BNSP



[Signature]

Ally

apt. Rahma Inayati, S.Farm.
Kepala Bidang Sertifikasi
Head of Certification Department