

Certificate No : 2016-APG-APE-001-05

Date : June 15th , 2016



CERTIFICATE OF ACCOMPLISHMENT

This is to certify that

FAHMI YUNISTYAWAN

ID NUMBER : APE-001-05

has completed

**20 PRINCIPLES OF
OIL GAS/PETROCHEMICAL PLANT DESIGN
Training**

Held by **Ap-Greid Oil & Gas Design Course** – Jakarta,
May 28th to June 5th , 2016, covering the subjects as listed on the back page



ap-greid **Heru Prasadja, ST**
OIL & GAS DESIGN Director
COURSE

20 PRINCIPLES OF OIL GAS/PETROCHEMICAL PLANT DESIGN Training

SUBJECTS

1. What Is Engineering Phase In Oil Gas/Petrochemical Project?
2. Conceptual of Engineering Work.
3. Oil & Gas as Source of Energy (Reservoir, Well and Its Alternatives)
4. Step Process of Engineering Work.
5. Front End Engineering Design (F.E.E.D)
6. Detail Design Engineering (D.E.D)
7. Material Analysis
8. Safety First In Process Engineering
9. HAZOP, HAZID Engineering
10. Process Specification & Data Sheet (DS)
11. Surface Production Facility (Separator, Scrubber, KO Drum, Flare)
12. Onshore and Offshore Production System
13. Green Field and Brown Field Process Engineering
14. Oil & Gas Process Engineering
15. Heat & Material Balance (HMB), Process Flow Diagram (PFD) and P&ID
16. Oil Treatment Process (General Process, Oil Heater, Desalter)
17. Gas Treatment Process (Gas Dehydration, CO₂ Removal, H₂S Removal, Mercury Removal)
18. Produced Water Treatment
19. Erection and Construction.
20. Pre Commissioning and Start Up Commissioning