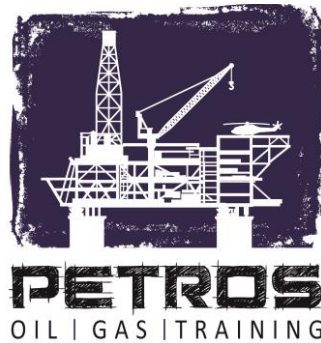


Certificate No : 2021-PTR-EC-BLAST-003  
Date : March 2<sup>nd</sup> , 2022



# CERTIFICATE OF ACCOMPLISHMENT

This is to certify that

**LUTHFINUR ARIFADI PURNAMA**

**ID NUMBER : EC-BLAST-003**

has completed 40 hours e-course & finished the Final Project for

**BLAST STRUCTURAL NON-LINEAR ANALYSIS  
FOR OFFSHORE STRUCTURES (SESAM & USFOS)**

**Trainer :**

**IR. ALEX ELPIANTO KAJUPUTRA, MT, ACPE**  
**Principal Offshore Structure Integrity Engineer**

Held by **PETROS Oil Gas Training** – Jakarta,  
covering the subjects as listed on the back page



Certificate Validation

A handwritten signature in black ink, appearing to read "Heru Prasadja".

**Heru Prasadja, ST**  
Director

# **BLAST STRUCTURAL NON-LINEAR ANALYSIS FOR OFFSHORE STRUCTURES (SESAM & USFOS)**

## **BLAST STRUCTURAL ANALYSIS PROCEDURE**

- Analysis Criteria
- Blast Analysis Loading
- Acceptance Criteria
- Dynamic Effects
- Analysis Software

## **STUDY CASE**

### **SACS MODEL CONVERSION TO SESAM**

### **SESAM MODEL CONVERSION TO USFOS**

- Topside Model Separation
- Model Validation
- Model Preparation
- Model Conversion

## **NON-LINEAR DYNAMIC ANALYSIS**

- USFOS Load Control
- USFOS Analysis
- Analysis Results Interpretation

## **FINAL PROJECT**