# CENTRAL BHARAT SEVAK SAMAJ

**NATIONAL DEVELOPMENT AGENCY, ESTABLISHED IN 1952 BY PLANNING COMMISSION, GOVT. OF INDIA**

**CENTRAL BOARD OF EXAMINATIONS**

**BSS NATIONAL VOCATIONAL EDUCATION MISSION**

## FSS046-ADVANCED DIPLOMA IN OFFSHORE,RIG,OIL AND GAS SAFETY ENGINE

## ONE YEAR EXAMINATION NOVEMBER-2025

### FSS046-01 PRINCIPLES OF HEALTH AND SAFETY MANAGEMENT

**TIME: 3 Hours** **Marks: 100**

**INSTRUCTIONS**

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

**I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS** **1 x 10 = 10**

1) Management Leadership - Management of your company shows, in word and actions, their _____ to your safety and health program.
2) _____ The company has a system for evaluating and improving the overall safety and health program and does so on a regular basis.
3) Safety Engineer - Consults on the use of _____ to eliminate or reduce hazards in the workplace.
4) The _____ is usually a maintenance person. They need training in machine guarding, other engineering type training.
5) When effective, positive reinforcement _____ required and voluntary behaviors.
6) _____ are adjusted and reasonable. (Employees can get involved in safety without the fear of jeopardizing job security)
7) _____. Unsafe lifting, lowering, pushing, pulling, twisting.
8) _____. Increased pressure in hydraulic and pneumatic systems.
9) Flammability/Fire. In order for combustion to take place, the fuel and oxidizer must be _____ in gaseous form.
10) An injury that entitles the worker to _____ for disability or death.
11) When a _____ is recognized, the preferred correction or control cannot always be accomplished immediately.
12) _____ is one form of education that helps build specific knowledge and skills.
13) _____ workers will receive training to recognize our specific workplace's hazards or potential hazards.
14) _____ is exclusively within the control of the individual holding the responsibility.
15) Workers routinely participate in _____, hazard prevention and control, and in safety and health training activities.

**II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS** **2 x 10 = 20**

1) Define Safety Engineering?
2) Define safety concept?
3) List any four potential ways to get employee involvement in safety training programme?
4) What is meant by safety publicity?
5) What is safety survey?
6) What do you understand by scope of the audit?
7) Why unsafe acts are difficult to correct than unsafe conditions?
8) State any four unsafe acts?
9) What are the key elements of Safety audit?
10) How to review an audit?
11) What are the unsafe conditions in the shop floor?
12) Define near miss incident?
13) What is the significance of celebrating safety week?
14) What are the needs for safety training?
15) What do you understand by the term frequency rate?

**III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS** **5 x 5 = 25**

1) Write various steps in major safety programme?
2) How safety sampling is judged as superior to other techniques?
3) State the objectives of safety management?
4) List the general safety training methods?
5) Prepare the list of various unsafe acts committed by workers and unsafe conditions prevailing in the chemical industry that are causing accidents?
6) Explain the role of supervisor in accident prevention?
7) Explain in detail about safety training conducted in the industry for implementing safety activities?
8) Explain the various role played by DGFASLI in promoting safety?

**IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS** **15 x 3 = 45**

1) Summarize the events that led to modern safety concept?
2) Write in detail about the managerial responsibilities in safety issues?
3) Discuss briefly about various functions and activities of Safety Engineering department. Highlight any four functions which you feel very important for preventing accidents?
4) List out and explain the responsibilities of auditor. Also mention the requirements to become a competent auditor?
5) Explain in detail, various steps involved in systematic design of safety training programme?

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## FSS046-ADVANCED DIPLOMA IN OFFSHORE,RIG,OIL AND GAS SAFETY ENGINE

## ONE YEAR EXAMINATION NOVEMBER-2025

### FSS046-02 HYDRO CARBON & PROCESS SAFETY ENGINEERING

**TIME: 3 Hours** **Marks: 100**

**INSTRUCTIONS**

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

**I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS** **1 x 10 = 10**

1) Desalting in petroleum refining is the process of removing _____ from crude oil.

2) A vacuum distillation unit is used to separate components at _____ pressures.

3) Visbreaking is a process that reduces the viscosity of heavy _____.

4) The primary product of coking in refining is _____.

5) FCC stands for Fluid _____ Cracking.

6) Hydrogen sulphide scrubbing is used to remove _____ from process streams.

7) The two basic types of cracking are _____, using heat and pressure, and _____

8) FCC_____

9) _____ will ignite spontaneously when exposed to air and therefore must be wetted with water to prevent it from igniting vapors.

10) Hydrocracking produces relatively large amounts of _____ for alkylation feedstocks.

11) _____ may be accomplished thermally or in the presence of a catalyst at lower temperatures.

12) Process unit containment by curbs and drainage and isolation so that effluent can be _____before release to the sewer system should be considered.

13) Some _____ and _____in sulfuric acid units may occur from the breakdown of sulfuric acid esters or where caustic is added for neutralization.

14) _____ is a common treating process in which the hydrocarbon feedstock is first scrubbed to prevent catalyst poisoning.

15) _____ control vapors and liquids that are released by pressure-relieving devices and blow-downs.

**II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS** **2 x 10 = 20**

1) How are salts separated from crude oil in a crude desalter?
2) Define atmospheric distillation?
3) What is the purpose of desalting in petroleum refining?
4) What are the treatment processes used in refining, and what do they involve?
5) Define asphalt production in a refinery?
6) List the flue gas components?
7) Define carbonization?
8) Trace metals?
9) Naphthenic acids?
10) Liquefied petroleum gas (LPG)?
11) Residual fuels?
12) Lubricants?
13) The fluid cracker?
14) Sulfuric acid?
15) Sulfur recovery?

**III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS** **5 x 5 = 25**

1) Discuss on fluidized catalytic cracking with neat sketch?
2) Explain the process of hydrogen steam cracking with a neat sketch?
3) Calculate the limiting oxygen Index of butane (C4H10)?
4) Estimate the LOC of propane, hydrogen, and methane?
5) Explain the process of hydrocarbon steam cracking?
6) Explain the manufacture of Biogas with a sketch?
7) Describe the construction and working of electric furnace with a neat sketch?
8) Summarize the working of silicon cell with a diagram?

**IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS** **15 x 3 = 45**

1) On an overcast day a stack with an effective height of 60 m is releasing sulphur dioxide at the rate of 80 g/s. The wind speed is 6 m/s. The stack is located in a rural area. Determine?
2) Discuss on the control measures to minimize the effects of fi re and explosion in the oil and gas industries?
3) Describe the process of visbreaking and its role in refining heavy hydrocarbons?
4) Explain the principles and applications of hydrocracking in the refining of hydrocarbons?
5) Describe about Basic Refinery Process?

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## FSS046-ADVANCED DIPLOMA IN OFFSHORE,RIG,OIL AND GAS SAFETY ENGINE

## ONE YEAR EXAMINATION NOVEMBER-2025

### FSS046-03 FIRE AND SAFETY ENGINEERING

**TIME: 3 Hours** **Marks: 100**

**INSTRUCTIONS**

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

**I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS** **1 x 10 = 10**

1) _____ are processed, stored, handled, and transported.

2) The DOT has _____ divisions for explosives

3) _____ burn readily and include carbon black, lamp black, sulfide, sulfur, and organic peroxides.

4) _____ any gas that will not burn in any concentration of air or oxygen (nitrogen).

5) _____ flammable gases used for heating.

6) _____gases used for welding and cutting, chemical processing, refrigeration, etc.

7) _____ is not to be stored inside buildings except within rooms designed especially for this type of hazard

8) Storage also must be kept _____ inches away from ceilings

9) The sub-station area shall have a clear height of _____ below beams

10) Provisions of boiler and boiler rooms shall conform to _____

11) Low and medium voltage wiring running in shaft and in _____ shall run in separate conduits.

12) Service duct shall be enclosed by walls and door, if any, of _____ fire rating.

13) The lift shall have a floor area of not less than _____

14) Fire escape shall be constructed of _____ materials

15) Minimum Width Provision for _____:As provided in Building Bye Laws 4.8.7

**II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS** **2 x 10 = 20**

1) Identify types of hazards?
2) Electrical problems?
3) Flash point?
4) Electrical Equipment?
5) Fuel Dispensing?
6) Wood Shops?
7) Can gases cause major disasters?
8) Hazardous chemicals?
9) Fire Prevention?
10) History of Hazardous Materials Development?
11) List out Hazards by Occupancy of Assembly Occupancies?
12) The Authority?
13) The staircase of basement?
14) Automatic sprinklers?
15) Occupancy restrictions?

**III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS** **5 x 5 = 25**

1) Carry out calculations involving centres of gravity and buoyancy?
2) Carry out basic calculations involving these terms?
3) Apply the Gas Laws to calculations involving changing conditions of heat?
4) Recognize and categorize hazardous materials?
5) Electrical fires?
6) Open flame ignition sources?
7) Ignition source-heating?
8) Combustible Liquids?

**IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS** **15 x 3 = 45**

1) Explain that how to Analysis and interpretation of data Extract and tabulate given data and express that data in the form of: Histograms and bar charts ?
2) Write long notes on Obtain median, mean and norm values from given data Extend graphs to: Project values from given data (extrapolate)?
3) Write long notes on Obtain median, mean and norm values from given data Extend graphs to Deduce values from missing data(interpolate)?
4) Explain Chemicals?
5) Write Common Hazards by Occupancy?

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## FSS046-ADVANCED DIPLOMA IN OFFSHORE,RIG,OIL AND GAS SAFETY ENGINE

## ONE YEAR EXAMINATION NOVEMBER-2025

### FSS046-04 PETRO CHEMICAL SAFETY ENGINEERING

**TIME: 3 Hours** **Marks: 100**

**INSTRUCTIONS**

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

**I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS** **1 x 10 = 10**

1) _____ will learn what to expect in various facilities regarding typical materials and process methods, equipment, potential hazards, and exposures.
2) _____, another form of thermal cracking, was developed in the late 1930s to produce more desirable and valuable products.
3) The lighter, straight-chain paraffin molecules are found in _____and _____
4) Hydrogen chloride may also combine with ammonia to form _____ which causes fouling and corrosion.
5) Sulfuric acid and hydrofluoric acid are used primarily as catalysts in _____
6) At the refinery, the desalted crude feedstock is preheated using recovered process _____
7) Hydrocracking also performs isomerization for pour-point control and smoke-point control, both of which are important in _____ jet fuel.
8) Mild lube hydrotreating also may be used following _____
9) Vents can be routed to _____ to neutralize hydrogen fluoride gas or hydrofluoric acid vapors before release.
10) _____ are found on crude and reformer preheaters, coker heaters, and large-column reboilers.
11) The steam pressure is then _____ in turbines that drive process pumps and compressors.
12) _____ water must be treated to remove impurities and dissolved hydrocarbons.
13) _____ converts hydrogen sulfide in sour gases and hydrocarbon streams to elemental sulfur.
14) _____ has evolved continuously in response to changing consumer demand for better and different products
15) _____ in consistency from water to tar-like solids, and in color from clear to black

**II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS** **2 x 10 = 20**

1) Define The Alkylation?
2) What is principle of reforming? What are the reactions involved in it?
3) What are possible hazards in petrochemical industry?
4) Define cracking process?
5) Define sweetening of petroleum products?
6) List any two geo thermal power station in India'?
7) List the sources of non conventional energy?
8) Naphthenic acids?
9) Residual fuels?
10) What are The principles of vacuum distillation?
11) What are the basic functions in the catalytic cracking process?
12) The fluid cracker?
13) Spent catalyst?
14) Define The Solvent Extraction and Dewaxing
15) Define The Crude Oil Pre-treatment (Desalting)

**III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS** **5 x 5 = 25**

1) Basics of Crude Oil?
2) Fluid Catalytic Cracking?
3) Atmospheric distillation tower?
4) List the names of at least six major refineries located in India. Which is the largest refinery among them?
5) List the air & water pollutants observed in petrochemical complex?
6) What is principle of esterification? What are the products obtained from the esterification process?
7) Explain the manufacture of Biogas with a sketch?
8) Explain the catalytic reforming?

**IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS** **15 x 3 = 45**

1) Explain about Three Principle Groups or Series of Hydrocarbon Compounds?
2) Explain about Hydrocracking?
3) Describe any one alkylation process with reactions?
4) What are the reactions involved in the production of BTX. What are the various derivatives obtained from Benzene?
5) Explain pulverized coal burning methods?

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## FSS046-ADVANCED DIPLOMA IN OFFSHORE,RIG,OIL AND GAS SAFETY ENGINE

## ONE YEAR EXAMINATION NOVEMBER-2025

### FSS046-05 OIL & GAS SAFETY ENGINEERING

**TIME: 3 Hours** **Marks: 100**

**INSTRUCTIONS**

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

**I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS** **1 x 10 = 10**

1) _____ to wellsite hazards is the fundamental method of protecting workers on an oil and gas site
2) Working on and around stairways and ladders can be _____.
3) _____ are used to remove a hazard or place a barrier between the worker and the hazard.
4) OSHA generally requires oil and gas employers to keep records of workplace injuries and illnesses
5) _____ and training is successful only after the employer can verify that employees are performing at or above the employer's standards
6) Initial and continuing safety training, especially with new employees, must _____ for their lack of knowledge, skills, and abilities in the demanding work they must perform.
7) _____ includes systems designed to stop a worker’s fall after a fall has begun.
8) The Bureau of Labor Statistics, about _____ of all oil and gas workers are hurt on the job each year
9) Hazards should be documented, reviewed, and corrections should be made in a _____
10) The next best control measure is to _____something else in its place that would be non-hazardous or less hazardous to workers.
11) _____ should be shared with the Safety and Health Committee for input.
12) Many _____develop and implement formal safety recognition programs because that is what they've been told works best and that is what everyone else does.
13) Management in your company should take prompt _____ when responding to safety and health issues
14) _____ operators should all be able to show written documentation providing proof of competency
15) EMR_____

**II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS** **2 x 10 = 20**

1) List out The Elements of a SMS?
2) Define Responding to Safety and Health Issues?
3) What are the Six important elements should be present in an employer safety accountability system?
4) What are The PDSA Cycle ?
5) The Pre-Bid Meeting?
6) Contractor Selection Criteria?
7) How to indicates EMR chart ?
8) Management and Employees Must Be Involved?
9) The Hierarchy of Controls?
10) Elimination?
11) What is the following the hierarchy of controls for fall protection?
12) Analyze for Excavation Hazards?
13) Which involves Electrical safety in oil and gas ?
14) Stairways and Ladders?
15) Hand and Power Tools?

**III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS** **5 x 5 = 25**

1) Real Safety Commitment?
2) The Importance of Total Safety Education and Training?
3) Writing Safety Policies?
4) Explain The Elements of a SMS?
5) Project Designers?
6) Change Analysis?
7) Initial Training?
8) Survey Your Workplace for Additional Hazards?

**IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS** **15 x 3 = 45**

1) Describe about SMS and Wellsite Analysis?
2) Explain about Classroom and On-The-Job Training?
3) Explain Hazard Prevention and Control?
4) The Importance of Total Safety Education and Training?
5) Explain „emission estimation" using any one example?

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## FSS046-ADVANCED DIPLOMA IN OFFSHORE,RIG,OIL AND GAS SAFETY ENGINE

## ONE YEAR EXAMINATION NOVEMBER-2025

### FSS046-06 OFFSHORE & RIG SAFETY ENGINEERING & MANAGEMENT

**TIME: 3 Hours** **Marks: 100**

**INSTRUCTIONS**

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

**I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS** **1 x 10 = 10**

1) The Supervisors must ensure that protective clothing are kept relatively clean by _____
2) _____ objects should be properly earthed by cable lugs or clamps.
3) Carefully inspect _____ inch by inch to ensure that any damaged areas are identified
4) Never allow the sling to _____ on the shackle
5) _____ are standardized by material and wall thickness
6) Continuous reduction in percentage of rated capacity as the angle is _____ and the load moves out from the center of the hook
7) To protect the slings, place _____ between the sling and the edges.
8) If the sling has _____, hang it up to determine whether all the legs are the same length
9) When you come across a _____ destroy it immediately in accordance with our company policy.
10) _____ used on center (straight up and down with a balanced load) can carry 100 percent of the rated load.
11) Be aware that the rated capacity changes when _____ are involved just like it does when using slings
12) Hardware's _____ decreases when it is pulled from any direction other than vertical
13) _____ shall not cross traffic lanes or walk ways
14) Scaffolding shall be designed to cater for the build up of loads during _____
15) Bogies of tower cranes are locked or choked to the rails and boom is left in the _____position.

**II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS** **2 x 10 = 20**

1) Define pre-lift reminders for riggers?
2) Define fire prevention and emergency response procedure?
3) Define protect slings from cuts and tears?
4) Responsibilities of site safety officer?
5) What are the following precautions are taken while operating a crane?
6) Paint ?
7) What are the following report form will be used for the reporting and investigation of accidents and incidents?
8) Hardware examples?
9) Hooks?
10) Protect slings from cuts and tears?
11) Tag Lines?
12) Clear the Area?
13) Offshore ?
14) Trolley travel?
15) Pneumatic tools and equipments?

**III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS** **5 x 5 = 25**

1) Synthetic web slings?
2) Individual safety protection equipment?
3) Electrical installation / maintence?
4) Cranes?
5) Multi leg slings?
6) Inspections of synthetic round slings?
7) Inspections of alloy steel chain slings?
8) Inspections of rigging hardware - hooks, shackles, eye bolts?

**IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS** **15 x 3 = 45**

1) Explain Select the right hardware for the load-explain it?
2) Explain the safety department?
3) Write long notes Grit and shot blasting?
4) Write long notes Safety Tips for Common Industry Rigging Applications?
5) Write long notes Hand Signals for Crane Operations?

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## FSS046-ADVANCED DIPLOMA IN OFFSHORE,RIG,OIL AND GAS SAFETY ENGINE

## ONE YEAR EXAMINATION NOVEMBER-2025

### FSS046-07 LEGAL REQUIREMENTS

**TIME: 3 Hours** **Marks: 100**

**INSTRUCTIONS**

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

**I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS** **1 x 10 = 10**

1) The programme shall follow the requirement as laid down in sub-rule (2) of rule 121 on _____ of facilities
2) The operator shall ensure that health detrimental exposure during storage, use, handling and _____ giving off radiation is avoided.
3) The _____ shall be formally closed after completion of work
4) The operator shall ensure that the planned activities _____ from safety point of view before they are conducted.
5) The operator shall establish procedures which are to be used as means to prevent faults and situations of _____ and _____
6) Each employee shall be given training necessary for _____ of the work.
7) _____ shall be installed in hazardous areas and in other areas representing a major fire risk.
8) The fixed fire fighting systems shall in addition _____ containing significant quantities of hydrocarbons
9) In case of _____, automatic actions, where appropriate, shall limit the consequences of the fire or gas leakage.
10) _____ with important functions and equipment and _____ with a high fire risk shall be separated from the surroundings by fire divisions.
11) For the existing pipeline wherein internal inspection is not feasible, the operator shall have _____ programme to ensure integrity of the pipeline.
12) _____shall be made to prevent exposure to radiation
13) _____ shall be installed on the first facility in areas where the corrosive conditions deviate from areas of past experience.
14) The means of _____ their placing and protection shall be in accordance with the risk assessment scheme.
15) _____ shall be of such quality that working environment and safety are adequate in respect of

work, movement and restitution.

**II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS** **2 x 10 = 20**

1) Avoid the unnecessary proliferation of oil and gas pipelines?
2) Trans-boundary fields?
3) Petroleum Production Reporting System?
4) Auditing process?
5) Licence Holding post decommissioning?
6) Combined operation?
7) Dynamic positioning system?
8) Offshore installation?
9) Pipeline system?
10) Safe petroleum activities?
11) Set up organization?
12) Working environment analysis?
13) Offshore Installation Manager?
14) Establishing emergency preparedness?
15) Ventilation and indoor climate?

**III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS** **5 x 5 = 25**

1) Phased development to improve confidence or understanding?
2) Gas flaring and venting?
3) Storage of field information following cessation of production?
4) Changes of field operator?
5) Intimation concerning offshore installation?
6) Application for consent for operation of new fixed offshore installation?
7) Safety management system?
8) Duty of Medical Officer on board?

**IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS** **15 x 3 = 45**

1) Discuss Facilitating communication and cooperation?
2) Discuss Phased developments?
3) Explain The Field Development Plan process?
4) Explain The Environmental Impact Assessment process?
5) Explain any five for Risk Management?