

**ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY**

Shobhavana Campus, Mijar – 574225, Moodbidri.

Dakshina Kannada Karnataka, India.



**Department of Mechanical Engineering**

**CERTIFICATION COURSE**

On

**“Industrial safety Engineering”**

**FOR THE ACADEMIC YEAR**

**2016-17**



# ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

Shobhavana Campus, Mijar, Moodbidri - 574 225  
Phone: 08258-262725 Fax: 08258-262726

DEPARTMENT OF MECHANICAL ENGINEERING

Date: 27/12/2015

## APPROVAL LETTER

To,

The Principal,  
AIET, Moodbidri

Respected Sir,

**Sub: - Approval for Organizing the Students Certification/Training Program on "Industrial safety Engineering"-Reg.**

With reference to the subject cited above, I would like to bring to your kind notice that, the Department is planning to host a **Five day's** Student Training Program/ hands on workshop on "**Industrial safety Engineering**" from "**18<sup>th</sup> July 2016**" to "**22<sup>nd</sup> July 2016**".

Kindly consider the above request and approve the same for further proceedings.

Thanking you Sir.

  
**Coordinator:**

**Mr. Hemanth S**

  
**Head of the Department:**

Dept. of Mechanical Engineering  
**Prof. K. V. Suresh**  
Alva's Institute of Engg. & Technology  
Mijar, MOOBBIDRI - 574 225

  
**Principal:**

PRINCIPAL  
Alva's Institute of Engg. & Technology,  
Mijar, MOOBBIDRI - 574 225, D.K.

Place: AIET, Moodbidri.



# ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

Shobhavana Campus, Mijar, Moodbidri - 574 225

Phone: 08258-262725 Fax: 08258-262726

## DEPARTMENT OF MECHANICAL ENGINEERING

Date: 13/7/2016

### CIRCULAR

All the students are hereby informed that there is a certification course on about **Industrial safety engineering** which is scheduled from 18.07.2016 to 22.07.2016, which is conducted by Mr. G B Vaggar & Mr. Sadashiv M B, AIET, Dept of mechanical engineering, moodbidri. Interested students kindly register your names on or before 10.07.2016.

**Head of the Department:**

**H. O. D.**  
Dept. Of Mechanical Engineering  
Alva's Institute of Engg. & Technology  
Mijar, MOODBIDRI - 574 225

# ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

Shobhavana Campus, Mijar, Moodbidri, D.K - 574225  
Phone: 08258-262725, Fax: 08258-262726

## DEPARTMENT OF MECHANICAL ENGINEERING

### INDUSTRIAL SAFETY ENGINEERING -- ATTENDANCE REPORT-2016-17

SLN	USN	NAME(Caps Only)																	
1.	4AL15ME712	CHIRAG B SHETTY	✓	A	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	✓	✓	✓	✓	✓
2.	4AL15ME713	GERARD ELSTON SHAWN	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	✓
3.	4AL15ME714	GOWTHAMKUMAR S N	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4.	4AL15ME715	JAIDEV K	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5.	4AL15ME716	JAMEEL AHAMED	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6.	4AL15ME717	MALLIKARJUN G	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	✓	✓	✓	✓	A	✓	✓
7.	4AL15ME718	MELVIN GEORGE M	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	A
8.	4AL15ME720	PAVAN V	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	✓
9.	4AL15ME721	PAVANA SHEKAPPA M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
10.	4AL15ME722	PRADEEP BAGALI	✓	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
11.	4AL15ME723	PRASANNA H S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
12.	4AL15ME724	PRATHIK P	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
13.	4AL15ME725	REVATI R K	✓	✓	✓	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
14.	4AL15ME726	RIYAS AHAMED K N	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
15.	4AL15ME727	SAURAV MANIKANTAN	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
16.	4AL15ME728	SHEETTY ASHIT M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
17.	4AL15ME729	SHETTY KARTHIK P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
18.	4AL15ME730	SHETTY NIDESH DEVDAS	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	✓
19.	4AL15ME731	SHETTY PRAJWAL R	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	✓
20.	4AL15ME733	SUJEETH M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
21.	4AL15ME734	SUMANTH R GOUDA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
22.	4AL15ME735	UDAYKUMAR J	A	✓	✓	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
23.	4AL14ME064	PHILIP KURUVILLA SAMJI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Coordinator

HOD



# ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

Shobhavana Campus, Mijar, Moodbidri, D.K - 574225

Phone: 08258-262725, Fax: 08258-262726

## DEPARTMENT OF MECHANICAL ENGINEERING

50.	4AL16ME414	MADHUSUDHAN K	✓	✓	✓	✓	A	✓	✓	✓	✓	✓	A	✓
51.	4AL16ME415	MAHALAKSHMI P D	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	A	✓
52.	4AL16ME416	MAHANTESH S B PATIL	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	A	✓
53.	4AL16ME417	NAIK JAGADISH D	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	A	✓
54.	4AL16ME418	OMPRAKASH BASAPPA K	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	A	✓
55.	4AL16ME419	PRABHUKUMAR M	✓	✓	A	✓	✓	✓	✓	✓	✓	✓	✓	✓
56.	4AL16ME420	PRAKASH HULLUR	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	A	✓
57.	4AL16ME421	PRASHANT GANI	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	A	✓
58.	4AL16ME422	RAGHU A	✓	✓	✓	A	✓	✓	✓	A	✓	✓	✓	✓
59.	4AL16ME423	RAGHUNATHAGOUDA N P	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	✓
60.	4AL16ME424	RAJITH KUMAR G	✓	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	A
61.	4AL16ME425	SACHIN KOKATNUR	✓	✓	✓	✓	✓	✓	✓	✓	✓	A	✓	✓
62.	4AL16ME426	SACHIN NANDIKOL	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
63.	4AL16ME427	SANGAPPA ANKUSH	✓	✓	✓	A	✓	✓	✓	A	✓	✓	✓	✓
64.	4AL16ME428	SHARATH T D	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	✓
65.	4AL16ME429	SHASHIKUMAR J	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	✓	✓
66.	4AL16ME430	SHETTY RAHUL S	✓	✓	A	✓	✓	✓	✓	✓	✓	A	✓	✓
67.	4AL16ME431	SOMSHEKHAR C	✓	✓	✓	✓	A	✓	✓	✓	✓	✓	✓	✓
68.	4AL16ME432	SRINIVAS R	✓	✓	✓	✓	✓	✓	✓	✓	✓	A	✓	A
69.	4AL16ME434	SUSHANTH	✓	✓	✓	✓	A	✓	✓	✓	✓	✓	✓	A
70.	4AL16ME435	VIKRAMRAJ YANKAPPA K	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	A	✓
71.	4AL16ME436	VINAY DAYANAND C	✓	✓	A	✓	✓	✓	✓	✓	✓	✓	✓	✓
72.	4AL16ME437	VINAYAK N RAYAKAR	✓	✓	✓	✓	✓	✓	✓	✓	✓	A	✓	✓
73.	4AL16ME438	VISHAL RAJAGOUDA P	A	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	✓
74.	4AL16ME433	SUJITH J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Coordinator

HOD



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## DEPARTMENT OF MECHANICAL ENGINEERING

INDUSTRIAL SAFETY ENGINEERING course				
SLN	USN	NAME(Caps Only)	Marks scored	
			Max Marks[20]	Qualified
1.	4AL15ME712	CHIRAG B SHETTY	20	⓪
2.	4AL15ME713	GERARD ELSTON SHAWN	20	⓪
3.	4AL15ME714	GOWTHAMKUMAR S N	20	⓪
4.	4AL15ME715	JAIDEV K	20	⓪
5.	4AL15ME716	JAMEEL AHAMED	20	⓪
6.	4AL15ME717	MALLIKARJUN G	20	⓪
7.	4AL15ME718	MELVIN GEORGE M	20	⓪
8.	4AL15ME720	PAVAN V	20	⓪
9.	4AL15ME721	PAVANA SHEKAPPA M	20	⓪
10.	4AL15ME722	PRADEEP BAGALI	20	⓪
11.	4AL15ME723	PRASANNA H S	20	⓪
12.	4AL15ME724	PRATHIK P	20	⓪
13.	4AL15ME725	REVATI R K	20	⓪
14.	4AL15ME726	RIYAS AHAMED K N	20	⓪
15.	4AL15ME727	SAURAV MANIKANTAN	20	⓪
16.	4AL15ME728	SHEETTY ASHIT M	20	⓪
17.	4AL15ME729	SHETTY KARTHIK P	20	⓪
18.	4AL15ME730	SHETTY NIDESH DEVDAS	20	⓪
19.	4AL15ME731	SHETTY PRAJWAL R	20	⓪
20.	4AL15ME733	SUJEETH M	20	⓪
21.	4AL15ME734	SUMANTH R GOUDA	20	⓪
22.	4AL15ME735	UDAYKUMAR J	20	⓪
23.	4AL14ME064	PHILIP KURUVILLA SAMJI	20	⓪
24.	4AL13ME052	JIBIN JAISON	20	⓪

Coordinator

HoD



DEPARTMENT OF MECHANICAL ENGINEERING

25.	4AL14ME030	GURUMURTHY J L	20	0
26.	4AL14ME031	HARSHA RAJ	20	0
27.	4AL14ME037	JYOTHISH KUMAR K P	20	0
28.	4AL14ME062	NIKHIL P	20	0
29.	4AL14ME074	RAJATH RAJ U K	20	0
30.	4AL14ME096	SHRAVIKA K A	20	0
31.	4AL14ME738	VAISNAV V R	20	0
32.	4AL14ME109	ASHWARYA P B	20	0
33.	4AL13ME134	ANOOP R B	20	0
34.	4AL14ME110	ASWAGOSH.B.S	20	0
35.	4AL14ME108	PRATHISHA	20	0
36.	4AL16ME400	ADARSH J	20	0
37.	4AL16ME401	AKHIL S	20	0
38.	4AL16ME402	ARUNKUMAR H D	20	0
39.	4AL16ME403	ARUNKUMAR S	20	0
40.	4AL16ME404	BHUSAHAN D	20	0
41.	4AL16ME405	DARSHAN V	20	0
42.	4AL16ME406	DEEPAK H A	20	0
43.	4AL16ME407	DEEPAK TIRAKANNAVAR	20	0
44.	4AL16ME408	DHARMAVEERA B M	20	0
45.	4AL16ME409	DIVAKAR K N	20	0
46.	4AL16ME410	GADKAR ROHAN RAJESH	20	0
47.	4AL16ME411	GIRISH R	20	0
48.	4AL16ME412	GIRISH UGARGOL	20	0
49.	4AL16ME413	HALESHA B S	20	0
50.	4AL16ME414	MADHUSUDHAN K	20	0

  
Coordinator

  
HoD



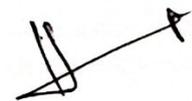
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51.	4AL16ME415	MAHALAKSHMI P D	20	0
52.	4AL16ME416	MAHANTESH S B PATIL	20	0
53.	4AL16ME417	NAIK JAGADISH D	20	0
54.	4AL16ME418	OMPRAKASH BASAPPA K	20	0
55.	4AL16ME419	PRABHUKUMAR M	20	0
56.	4AL16ME420	PRAKASH HULLUR	20	0
57.	4AL16ME421	PRASHANT GANI	20	0
58.	4AL16ME422	RAGHU A	20	0
59.	4AL16ME423	RAGHUNATHAGOUDA N P	20	0
60.	4AL16ME424	RAJITH KUMAR G	20	0
61.	4AL16ME425	SACHIN KOKATNUR	20	0
62.	4AL16ME426	SACHIN NANDIKOL	20	0
63.	4AL16ME427	SANGAPPA ANKUSH	20	0
64.	4AL16ME428	SHARATH T D	20	0
65.	4AL16ME429	SHASHIKUMAR J	20	0
66.	4AL16ME430	SHETTY RAHUL S	20	0
67.	4AL16ME431	SOMSHEKHAR C	20	0
68.	4AL16ME432	SRINIVAS R	20	0
69.	4AL16ME434	SUSHANTH	20	0
70.	4AL16ME435	VIKRAMRAJ YANKAPPA K	20	0
71.	4AL16ME436	VINAY DAYANAND C	20	0
72.	4AL16ME437	VINAYAK N RAYAKAR	20	0
73.	4AL16ME438	VISHAL RAJAGOUDA P	20	0
74.	4AL16ME433	SUJITH J	20	0

  
Coordinator

  
HoD



# ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

Shobhavana Campus, Mijar, Moodbidri - 574 225

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DEPARTMENT OF MECHANICAL ENGINEERING

## FEEDBACK FORM

Five days Students Training Program

On

### "INDUSTRIAL SAFETY ENGINEERING"

For the following areas, please indicate your rating from 1 to 5:

1=strongly Disagree 2=Disagree 3=neither agree nor disagree 4=Agree 5=strongly Agree

SN	Topics	1	2	3	4	5
<b>A.</b>	<b>Content</b>					
1	Understood the basics of INDUSTRIAL SAFETY ENGINEERING					✓
2	Understood the fundamental of safety in industry					✓
3	Able to apply the studied techniques for the problems at the hand.				✓	
4	Understood the fundamentals of safety				✓	
5	Able to do practical problems					✓
<b>B.</b>	<b>Presentation</b>					
6	Instructor's knowledge					✓
7	Instructor's presentation style					✓
8	Instructor covered material clearly				✓	
9	Instructor responded well to questions				✓	
10	Instructor facilitated interactions among participants well					✓
<b>C. How could this workshop be improved?</b>						
— Nil —						
<b>D. Any other comments or suggestions?</b>						
— Nil —						
<b>E. Overall, how would you rate this workshop?</b>						
<input type="checkbox"/>	Poor	<input type="checkbox"/>	Good			
<input checked="" type="checkbox"/>	Neither Good Nor Poor	<input type="checkbox"/>	Excellent			



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## DEPARTMENT OF MECHANICAL ENGINEERING

### Quiz on Industrial safety Engineering Course

11. What is the leading cause of death on construction sites?

- A. Struck by object
- B. Falls
- C. Caught-in or -between
- D. Electrocutions

12. Which of the following is not a chemical-related health hazard?

- A. Carcinogenicity
- B. Reactivity
- C. Corrosivity
- D. Toxicity

13. A container holding a hazardous material must include which of the following as of June 15, 2014:

- A. Identity of the hazardous chemical only
- B. Identity of the hazardous chemical, instructions on how to use
- C. Identify of the hazardous chemical, names of employees authorized to use
- D. None of the above

14. If you wanted to convey the most severe type of hazard, which word would you use?

- A. Warning
- B. Notice
- C. Danger
- D. Caution

15. If you transfer chemicals from a labeled container to a portable container, you

don't need to comply with standard hazardous material labeling requirements when:

- A. You hand the container off to someone else
- B. You leave the work area before using the materials
- C. You don't use the materials before the end of your work shift
- D. None of the above

16. Ammonia becomes an immediate danger to your life and health when it is present at the following level or greater:

- A. 10 ppm
- B. 30 ppm
- C. 300 ppm
- D. 1000 ppm

17. You should wear eye, head, and face protection if you are working with which of the following tools? A. Portable abrasive wheel tools B. Electric tools C. Pneumatic tools D. Liquid fuel tools

18. If you are working near a flammable substance, you should always use iron or steel hand tools. A. True B. False

19. You should not use a wedge if it has: A. Pointed head B. Triangular head C. Mushroomed head D. Flat head

20. Exposure to high levels of noise can lead to which of the following: A. High blood pressure B. Gastrointestinal problems C. Chronic fatigue. D. All of the above



### Quiz on Industrial safety Engineering Course

1. The purpose of a lock-out/tag-out procedure is to:

- (A) Improve productivity on the job
- (B) Secure harmful energy sources to prevent injury
- (C) Slow down work so technicians are less stressed
- (D) Save money

2. The purpose of CPR is to:

- (A) Maintain oxygenated blood circulation
- (B) Stabilize body temperature to avoid hypothermia
- (C) Build upper body strength
- (D) Dislodge blood clots within the victim's lungs

3. The very first thing you should do if you are the first to witness or discover an accident on the job site is to:

- (A) Go find at least one co-worker to help you so you can work as a team
- (B) Go to the scene and help the person(s) injured
- (C) Find and fill out the necessary forms to document the incident
- (D) Activate the emergency response system

4. The purpose of a cartridge-style respirator is to:

- (A) Reduce the concentration of particulates in the air you breathe
- (B) Provide a pure oxygen breathing environment where there is insufficient oxygen in the air
- (C) Enhance your personal appearance for maximum social appeal
- (D) Convert exhaled carbon dioxide back into oxygen for re-breathing

5. Shock is defined as an abnormal condition of the body where:

- (A) A broken bone has penetrated the skin

- (B) The lungs are unable to process oxygen properly
- (C) The muscles in the body have "frozen" and will not move
- (D) There is insufficient blood delivered to the body's cells

6. A confined space is deemed ready for employee entry when:

- (A) A company safety inspector has certified it
- (B) The unit operations foreman declares it ready
- (C) An engineer has completed the necessary calculations
- (D) Your supervisor assigns you to the job

7. One of the common signs of a heart attack is:

- (A) A sharp pain in the lower area of the spine
- (B) Loss of bowel control
- (C) A feeling of numbness in the legs
- (D) Discomfort in the chest and/or upper body

8. Heat stroke is often indicated by the following symptoms:

- (A) A sudden affinity for country-western music
- (B) Dizziness, vomiting, cold skin, profuse sweating
- (C) Cold and clammy skin, thirst, vomiting, confusion
- (D) Hot and dry skin, inability to drink, vomiting, confusion

9. Arc blast is caused by:

- (A) Poor contact within electrical wire splices
- (B) Radio frequency emissions from high-power transmitters
- (C) Discharge of high electrical current through open air
- (D) Failure to lock-out and tag-out electrical breakers

10. Current measurements are more dangerous to make with a multimeter than voltage measurements because:

- (A) You must use both hands to take the measurement
- (B) Most multimeters are unfused
- (C) The resulting magnetic fields may be very strong
- (D) The circuit must be broken (opened)

**ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY**  
**MOODBIDRI**



A Unit of Alva's Education Foundation®  
(Affiliated to VTU, Belagavi and Approved by A.I.C.T.E., New Delhi)  
Shobhavana Campus, Mijjar, Moodbidri DK Karnataka-574225

**DEPARTMENT MECHANICAL ENGINEERING**



*This is to certify that Mr./Ms..... bearing the  
USN ..... from ..... has attended  
the Students Training Program on "Industrial Safety  
Engineering" from 18<sup>th</sup> July 2016 to 22<sup>nd</sup> July 2016*

**Mr. Hemanth S**  
Coordinator

**Head of the Department**  
**Mechanical Engineering**

**Dr. Peter Fernandes**  
Principal  
AIET Moodbidri



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Shobhavana Campus, Mijar, Moodbidri, D.K - 574225

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## DEPARTMENT OF MECHANICAL ENGINEERING

### Report on Industrial Safety Engineering

The department of ME conducted a 5 Days hands on students training program for the students of ME from 18-07-2016 to 22-07-2016 on "Industrial Safety Engineering" at AIET Moodbidri.

Mr. G B Vaggar C H, Mr.Sadashiv M B, Department of Mechanical Engineering AIET, Moodbidri delivered a comprehensive and in depth information about the Fundamentals of Industrial Safety Engineering techniques & its Applications. Participants have enthusiastically participated and learnt the safety in engineering.

Photo





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DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR: 2016-17

## CERTIFICATE PROGRAM ON INDUSTRIAL SAFETY ENGINEERING

SL. No	Topic
1	Statutory authorities – inspecting staff, health, safety, provisions relating to hazardous processes, welfare, working hours, employment of young person's – special provisions – penalties and procedures; General powers of the central government, prevention, control and abatement of environmental pollution- Biomedical waste, The noise pollution, The Batteries (Management and Handling Rules) 2001- No Objection certificate from statutory authorities like pollution control board.
2	Definitions – duties of authorities – responsibilities of occupier – notification of major accidents – information to be furnished – preparation of offsite and onsite plans – list of hazardous and toxic chemicals – safety reports – safety data sheets.
3	Indian Boiler, static and mobile pressure vessel rules (SMPV), motor vehicle rules, workman compensation act, rules – electricity act and rules – hazardous wastes (management and handling) the building and other construction workers, Petroleum rules, Gas cylinder rules-Explosives

  
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