



Aarav Educational & Employment Research Org. (AEERO)



Registration No: 245/18 Under NCT of Delhi,
Govt of India.

Assessment Co-ordinator of
MSME, TC- CTR- Ludhiana (P.B) Govt, of India.

Implementation Partner of NIOS

LEARNING OUTCOME
COMPETENCY BASED CURRICULUM



विद्याधनम् सर्वधर्म प्रधानम्

राष्ट्रीय मुक्त विद्यालयी शिक्षा संस्थान
National Institute of Open Schooling
(An autonomous institution under Ministry of HRD, Govt. of India)
(The Largest Open Schooling System in the World) ISO 9001:2008 CERTIFIED

Assessment & Certification Body



National Institute of Technical Teachers
Training & Research, Chandigarh
(Ministry of Education, Government of India)

राष्ट्रीय तकनीकी शिक्षक प्रशिक्षण एवं
अनुसंधान संस्थान, चंडीगढ़
(शिक्षा मंत्रालय, भारत सरकार)

Curriculum Development Center

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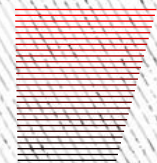
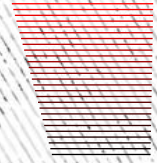


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LEARNING OUTCOME COMPETENCY BASED CURRICULUM COURSES



S.No	Names of Courses	Duration	Eligibility
 1	Diploma in Fire Technology & Industrial Safety Operations	One Year	12th Pass
 2	Diploma in Health Sanitary Inspector	One Year	12th Pass
 3	Advance Diploma in Industrial Safety	One Year	Bsc Science, Poly. Dip/B.E/ B-Tech
 4	Diploma in Industrial Safety Management	One Year	12 pass
 5	PG, Diploma in Industrial Safety Management	One Year	Graduation
 6	PG, Diploma in Occupational Safety, Health & Environment Management,	One Year	Graduation
 7	PG, Diploma in Fire Technology & Industrial Safety Operations	One Year	Graduation
 8	Certificate in Sub Fire Officer Theory & Practical 3 Months Industrial training attachment)	9, 6 Month	Graduation
 9	General Duty Assistance (Nursing Assistant)	Six Months	10th Pass
 10	Fireman Ship	Six Months	10th Pass

LEARNING OUTCOME COMPETENCY BASED CURRICULUM



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Curriculum Development Center

In realization of the need for training better quality technicians to meet the large scale industrialization of the country, the ministry of Human Resource Development (the then Ministry of Education), Government of India established four Regional Technical Teachers' Training Institutes (now National Institute of Technical Teachers Training & Research, NITTTR at Bhopal, Chandigarh, Chennai & Kolkata in 1967. The Institute at Chandigarh is one of these

four NITTTR, started in collaboration with Royal Netherlands Government (upto 1974). It was designed to meet the requirements of developing polytechnic education in the northern region covering the states of Jammu and Kashmir, Himachal Pradesh, Punjab, Haryana, Rajasthan, Uttar Pradesh, Uttrakhand, Delhi and Union Territory of Chandigarh. The Institute is registered under the Societies Registration Act, 1860 and is managed by a Board of Governors.

The institute started with long term teachers' training programmes for polytechnic teachers in 1967 & was also entrusted with the responsibility of promoting curriculum development work for the states in the region. To improve the competence of teachers for implementing new curricula designed by this institute, short term courses have been offered since 1967. The institute established a Media Centre in 1981 for preparing print & non-print instructional materials.



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Assessment & Certification Body

NIOS is "Open School" to cater to the needs of a heterogeneous group of learners up to pre-degree level. It was started as a project with in-built flexibilities by the Central Board of Secondary Education (CBSE) in 1979. In 1986, the National Policy on Education suggested strengthening of Open School System for extending open learning facilities in a phased manner at secondary level all over the country as an independent system with its own curriculum and examination leading to certification.

Consequently, the Ministry of Education (MOE), Government of India set up the National Open School (NOS) in November 1989. The pilot project of CBSE on Open School was amalgamated with NOS. Through a Resolution (No. F.5-24/90 Sch.3 dated 14 September 1990 published in the Gazette of India on 20 October 1990), the National Open School (NOS) was vested with the authority to register, examine and certify students registered with it up to pre-degree level courses. In July 2002, the Ministry of Education (MOE) amended the nomenclature of the organisation from the National Open School (NOS) to the National Institute of Open Schooling (NIOS) with a mission to provide relevant continuing education at school stage, up to pre-degree level through Open Learning system to prioritized client groups as an alternative to formal system, in pursuance of the normative national policy documents and in response to the need assessments of the people, and through it to make its share of contribution:



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Aarav Educational & Employment Research Organization, New Delhi The objectives provide for education and training in such branches of learning as it may deem fit for the purposes of empowering youth employment. To provide for research, consultancy and advancement of and dissemination of knowledge. To undertake extra mural studies, extension programs and field outreach activities to contribute to the development of society. To do all such other acts

and things as may be necessary or desirable to further the objects of the Institute. To establish administer, and manage the Institute and to provide facilities for the efficient functioning of the Institute. To select, educate and train young talents for careers, research and development

PREFACE

Learning and learning experience are the foundation of any education system. Appropriateness of education and its useful implications stand on the platform of knowledge and skill. But the knowledge and skill cannot be quantified qualitatively without ensuring learning experience. Curriculum is the pathway to select and organise learning experience. It helps the teachers to provide tangible resources, goals and objectives to learners. Curriculum acts as a catalyst to stimulate creativity, innovation, ethics, values, responsibility and many human factors. Curriculum embodies rigour and high standards and creates coherence to empower learner to meet the industrial and societal needs. Curriculum is a central guide for a teacher to plan a standard based sequence for the instructional delivery.

The industrial revolution 4.0 has forced the technical education system to reinvent the curriculum to meet the human resource requirement of the industry. The data driven systems relying on the subjects like machine-learning, Artificial Intelligence, Data Science etc are literally forcing the technical education system to offer different subjects differently to address the emerging challenges. The non-linear way of learning now facilitates students to choose path of knowledge to skill or vice-versa. The bi-directional process requires innovative curriculum design and revision. Diploma programme is now more challenging than ever. The level of skill and knowledge demanded by industry from diploma holders are highly interdisciplinary at the same time address special need. Hence, there is a need to align the curriculum to Learning Outcome Competency Based Curriculum.

National Education Policy, NEP-2020 has now opened up diversities for the education system to explore and exploit to make the education relevant. The policy emphasises to inculcate value, ethics, respect to culture and society etc along with industry ready knowledge and skill among the students. The interdisciplinary nature of curriculum, academic bank of credits and integration of technology in teaching-learning envisaged in NEP-2020 make it more challenging for curriculum development. NITTTR, Chandigarh has developed the art of curriculum development over 54 years of its existence. The expertise and experience available in the institute follow time-tested and acclaimed scientific methods to design/revise curriculum. The experienced faculty members entrusted with the curriculum development or revision activities are well-versed with Learning Outcome Competency Based Curriculum, NEP and Outcome based education. I am happy to note that **Aarav Educational & Employment Research Organization, New Delhi** reposed their confidence on this expertise to develop Learning Outcome Competency Based Curriculum for the state. This documented curriculum is an outcome of meticulous planning and discussions among renowned experts of the subject through series of workshops. The effective implementation of this curriculum supported with quality instructional resources will go a long way in infusing the learning experience among learners to make them industry ready.

Prof. (Dr.) S. S. Pattnaik Director
National Institute of Technical Teachers Training & Research, Chandigarh

ACKNOWLEDGEMENT

We gratefully acknowledge the assistance and guidance received from the following persons:

1. **Mr. Rahul Soni, Co- Founder & MD, Aarav Educational & Employment Research organization, New Delhi** for sponsoring & taking keen interest in the design of this Learning Outcome Competency Based Curriculum.
2. **Mrs. Neha R Soni, Executive Director-cum-Country Head Assessment & Training, Aarav Educational & Employment Research organization, New Delhi** for sponsoring and taking keen interest in the design of this Learning Outcome Competency Based Curriculum
3. **Prof. (Dr.) S. S. Pattnaik Director, National Institute of Technical Teachers' Training and Research, Chandigarh** for his support and academic freedom provided to Curriculum Development Centre.
4. All the participants from industry/field organizations, academic institute for their professional inputs during curriculum workshops.
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6. Faculty from different departments of NITTTR, Chandigarh for design of curriculum.

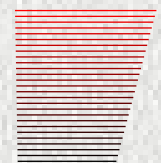
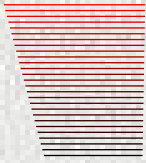
Prof. (Dr.) Rajesh Mehra
Project Coordinator & Head Curriculum Development Center
National Institute of Technical Teachers Training & Research, Chandigarh



DIPLOMA IN FIRE TECHNOLOGY & INDUSTRIAL SAFETY OPERATIONS

Duration : 1 Year

Eligibility: 12th Pass



Level -5



1. SALIENT FEATURES

- | | | |
|----------------------------|---|---|
| 1. Programme Name | : | Diploma in Fire Technology & Safety Operations |
| 2. Programme Duration | : | 1 Year |
| 3. Program Hours | : | 1650 |
| 4. Entry Qualification | : | 12th Pass |
| 5. Student Intake | : | As per sanctioned strength |
| 6. Programme Pattern | : | Semester |
| 7. Level | : | 5 |
| 8. Theory Practical Ratio | : | 30:70 |
| 9. In-house/Field Training | : | Job oriented practical attachment and Project work |
| 10. Internship Guidelines | : | One Month Internship after the first semester is mandatory for the award of Diploma |

2. EMPLOYMENT OPPORTUNITIES

In government, industrial and other enterprises, man power is required who take the responsibility for the completion of their own work and expected to learn and improve their performance on the job. They will require well developed practical and cognitive skills to complete their work. They may also have some responsibility for others' work and learning. People carrying out these jobs may be described as "**Fully Skilled Workers**" or "**Supervisors**".

Supervisors are expected to be able to communicate clearly in speech and writing and may be required to apply mathematical processes. They should also be able to collect and organise information to communicate about the work. They will solve problems by selecting and applying methods, tools, materials and information. They will be expected to have previous knowledge and skills in the occupation, and to know and apply facts, principles, processes and general concepts in the occupation.

They will be expected to understand what constitutes quality in the occupation and will distinguish between good and bad quality in the context of their work. They will be expected to operate hygienically and in ways which show an understanding of environmental issues. They will take account of health and safety issues as they affect the work they carry out or supervise.

After passing out from the program students have wide scope in the department of armed forces, Multi National Companies, public sectors, industries, construction firms, Oil companies etc. wherever the risk of accidents and need of security measures are more. The overall goal of the program is to train the students by giving a broader view of the situation at hand. It will help the student to appropriately deal with conditions of fire, preventing accidents and ways of controlling mishaps.

Diploma in Fire Technology and Industrial Safety Operations prepares the students to handle real-life situations with strength and courage without panicking as well as safeguarding the lives of others. As the issue of safety is one of the primary and important aspects in the present time, candidates after the successful completion of course, find it lucrative to find a job in private and government sectors. They can work for Refineries, Industries, Electricity boards, Fire safety Training Institutes, Armed forces, Chemical plants and other such guiding them towards safety.

LEVEL - 5 COMPLIANCE

Learning Outcome Competency Based Curriculum has defined total Ten Levels. Each level of the is associated with a set of descriptors made up of five outcome statements, which describe in general terms, the minimum knowledge, skills and attributes that a learner needs to acquire in order to be certified for that level.

Each level is described by Learning outcomes in following five Domains known as Level descriptors.

Process	Professional Knowledge	
Professional Skill	Core Skill	Responsibility

The level-5 description is given below:

Process

Job that requires well developed skill, with Clear choice of procedures in familiar context.

Professional Knowledge

Knowledge of facts, principles, processes & general concepts, in a field of work or study.

Professional Skill

A range of cognitive and practical skills required to accomplish tasks and solve problems by selecting & applying basic methods, tools, materials and information.

Core Skill

Desired mathematical skill; understanding of social, political; and some skill of collecting and organizing Information, communication.

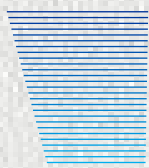
Responsibility

Responsibility for own work and learning and some responsibility for others' works & learning.



DIPLOMA IN HEALTH SANITARY INSPECTOR

Duration : 12 Months,
Eligibility: 10+2 Pass



Level -4



1. SALIENT FEATURES

1. Programme Name : Diploma in Health Sanitary Inspector
2. Programme Duration : 12 Months
3. Program Hours : 1728
4. Entry Qualification : 10+2 Pass
5. Student Intake : As per sanctioned strength
6. Programme Pattern : Semester
7. Level : 4
8. Theory Practical Ratio : 34:66
9. In-house/Field Training : Job oriented practical attachment & Project work
10. Internship Guidelines : One month Industrial Internship/Training after the first semester is mandatory for the award of diploma

2. EMPLOYMENT OPPORTUNITIES

Diploma in Health Inspector is a paramedical diploma course that focuses on public health and sanitation of medical places and trains students about methods and practices involved in maintaining health and hygiene. A health inspector is a very responsible job position in which the responsibilities include inspection of health institutions and public places and enforcing health mandates which are able to prevent infection and illness and to improve overall health & safety of the public. The increasing number of infections and communicable diseases has made everyone responsible to follow strict safety measures to contain the looming health hazards. The paramedical forces are the need of the hour.

Health Inspectors have a huge requirement in both government and public sectors. Some of the employment opportunities which are available are as Health Inspector, Hygiene Inspector, Hospital Facilities Supervisor, Sanitary Inspector, Floor supervisor, Medical Assistant, Laboratory Assistant, Field Assistant.

To deal with Health and Sanitation problems, including preventive health, family welfare, environmental conditions etc. Trained in the management of public health & sanitation, Sanitary Health Management professionals implement evidence-based public health practice across a number of establishments such as hospitals, hotels & industries such as pollution control authorities, food & water safety and travel (airports, seaports & railways).

To deal with Health & Sanitation problems, including preventive health, family welfare, environmental conditions etc. Trained in the management of public health & sanitation, Sanitary Health Management professionals implement evidence-based public health practice across a number of establishments such as hospitals, hotels and industries such as pollution control authorities, food & water safety & travel (airports, seaports and railways).

Students can opt for higher education and specialized courses like B.Sc. in Health Inspector, B.Sc. in Sanitation Inspector, Food Technology, B.Sc. in Health Science, and others. The students can enhance their skills & be an entrepreneurship in this field too.

3. LEVEL - 4 COMPLIANCE

Learning Outcome Competency Based Curriculum has defined total Ten Levels. Each level of the is associated with a set of descriptors made up of five outcome statements, which describe in general terms, the minimum knowledge, skills and attributes that a learner needs to acquire in order to be certified for that level.

Each level is described by Learning outcomes in following five Domains known as Level descriptors.

Process	Professional Knowledge	
Professional Skill	Core Skill	Responsibility

The level-4 descriptor is given below:

Process

Work in familiar, predictable, routine, situation of clear choice.

Professional Knowledge

Factual knowledge of field of knowledge or study.

Professional Skill

Recall and demonstrate practical skill, routine and repetitive in narrow range of application, using appropriate rule and tool, using quality concepts.

Core Skill

Language to communicate written or oral, with required clarity, skill to basic arithmetic and algebraic principles, basic understanding of social political and natural environment.

Responsibility

Responsibility for own work and learning.



ADVANCE DIPLOMA IN INDUSTRIAL SAFETY

Duration : 12 Months, Eligibility: 12th pass + 1 year Diploma in Industrial Safety with 2 years industrial Experience/ B.Sc. in any stream/ Polytechnic Diploma in Engineering/ B.E/B. Tech.



Level -6



1. SALIENT FEATURES

1. Programme Name : Advance Diploma in Industrial Safety
2. Programme Duration : 12 Months
3. Program Hours : 1650
4. Entry Qualification : 12th pass plus 1 year Diploma in Industrial Safety with 2 years industrial exp./B.Sc.in any stream/Polytechnic Diploma in Engineering/ B.E/B.Tech.
5. Student Intake : As per sanctioned strength
6. Programme Pattern : Semester
7. Level : 6
8. Theory Practical Ratio : 37 : 63
9. In-house/Field Training : Practicals and Project Work
10. Internship Guidelines : 2 weeks Industrial training is mandatory for the award of Advance diploma Certificate

2. EMPLOYMENT OPPORTUNITIES

This program on Advance Diploma in Industrial Safety trains the students in all practical aspects of risk management techniques, safety management operations, monitoring safety and health operations, improving standard of health of the employees and enhancing general safety measures. The programme makes the learners thorough safety experts who can be deployed in any kind of industrial surrounding in any part of the world.

Due to rise in number of workplace-related accidents and disasters, it is imperative to safeguard human lives, protect the environment and conserve existing industrial assets to achieve safe and secure workplace. To achieve safe occupational environment, the passouts of this programme should have knowledge on risk assessment and management procedures. Creating awareness on safety audits and health and safety management is also critical to prevent unwarranted situation in industry.

The passouts of this programme are expected to have broad factual and theoretical knowledge applying to practice within the occupation, and a range of practical and cognitive skills. They will be able to generate solutions to problems which arise in their practice. They will be responsible for the completion of their own work and expected to learn and improve their performance on the job. They are likely to have full responsibility for others' work and learning. People carrying out these jobs may be described as "master technicians" and "trainers".

Candidates who have successfully completed the course he/she will get one of the following opportunities: Safety Officer, Safety Supervisor, Safety Manager, Senior Safety Analyst, Safety Engineer, Health Safety and Environment (HSE) Officer, Safety Auditor, Health and Safety Administrator, Wellbeing and Safety Leader.

3. LEVEL - 6 COMPLIANCE

Learning Outcome Competency Based Curriculum has defined total Ten Levels. Each level of the is associated with a set of descriptors made up of five outcome statements, which describe in general terms, the minimum knowledge, skills and attributes that a learner needs to acquire in order to be certified for that level.

Each level is described by Learning outcomes in following five Domains known as Level descriptors.

Process	Professional Knowledge	
Professional Skill	Core Skill	Responsibility

The level-6 descriptor is given below:

Process

Demands a wide range of specialized technical skill, clarity of knowledge and practice in broad range of activity involving standard and nonstandard practices.

Professional Knowledge

Factual and theoretical knowledge in broad contexts within a field of work or study.

Professional Skill

A range of cognitive and practical skills required to generate solutions to specific problems in a field of work or study.

Core Skill

Reasonable good in mathematical calculation, understanding of social, political and reasonably good in data collecting organising information, and logical communication.

Responsibility

Responsibility for own work and learning and full responsibility for other's works and learning.



PG, Diploma in Occupational Safety, Health & Environment Management,

Duration : 12 Months

Eligibility: Graduation

Level – 7



1. SALIENT FEATURES

1. Programme Name : PG Diploma in Occupational Safety, Health and Environment Management
2. Programme Duration : 12 Months
3. Program Hours : 1650
4. Entry Qualification : Graduation in any field
5. Student Intake : As per sanctioned strength
6. Programme Pattern : Semester
7. Level : 7
8. Theory Practical Ratio : 38 : 62
9. In-house/Field Training : Practical Training and Project Work
10. Internship Guidelines : 2 weeks Industrial training is mandatory for the award of PG diploma certificate.

2. EMPLOYMENT OPPORTUNITIES

Rapid technological developments and large scale mechanization in Construction, Petrochemical, Chemical, Engineering Industries etc. have resulted in complex Health, Safety and Environmental challenges in these industries. Hence the need of qualified professionals emerged to look after various Safety, Health and Environmental aspects arising from these industries. Occupational Safety, Health and Environment Management is a growing field in India and abroad and having extremely good career with ample career prospects.

PG Diploma in Occupational Health, Safety and Environment Management is a program designed to meet these requirements by enhancing the core competencies of learner. Candidates, who have completed this programme, are expected to have wide-ranging factual and theoretical knowledge of practice within the occupation, and a wide range of specialised practical and cognitive skills. They will be able to generate solutions to problems which arise in their work. They will also be expected to be able to communicate clearly in speech and writing and are likely to be required to carry out mathematical calculations as part of their work. They should also be skilful in collecting and organising information to communicate logically about the work.

They will normally be responsible for the output and development of a work group within an organisation. People carrying out these job roles are likely to be graduates. They may be described as “managers” or “senior technicians”.

The passouts from this program will get employment opportunities in various industries including private companies, consultancy firms, accredited auditors, government organizations etc. Diverse job titles and profiles are available for learner of this program. The learner will get placement at various capacities in Safety, Health and Environment field such as Inspector, Supervisor, Officer, Auditor, Specialist, Manager, Health, Safety and Environment (HSE) Compliance Officer, HSE Team Lead, Health and Safety Administrator.

3. LEVEL - 7 COMPLIANCE

Learning Outcome Competency Based Curriculum has defined total Ten Levels. Each level of the is associated with a set of descriptors made up of five outcome statements, which describe in general terms, the minimum knowledge, skills and attributes that a learner needs to acquire in order to be certified for that level.

Each level is described by Learning outcomes in following five Domains known as Level descriptors.

Process	Professional Knowledge	
Professional Skill	Core Skill	Responsibility

The level-7 descriptor is given below:

Process

Requires a command of wide ranging specialized theoretical and practical skills, involving variable routine and non routine contexts.

Professional Knowledge

Wide-ranging factual and theoretical knowledge in broad contexts within a field of work or study.

Professional Skill

Wide range of cognitive and practical skills required to generate solutions to specific problems in a field of work of study.

Core Skill

Good logical and mathematical skill understanding of social political and natural environment and organising information, communication and presentation skill.

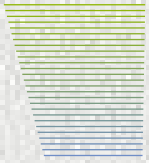
Responsibility

Full responsibility for output of group and development.



Diploma in Industrial Safety Management

Duration : 12 Months
Eligibility: 12th pass



Level -5



1. SALIENT FEATURES

1. Programme Name : Diploma in Industrial Safety Management
2. Programme Duration : 12 Months
3. Program Hours : 1650
4. Entry Qualification : 12th Pass
5. Student Intake : As per sanctioned strength
6. Programme Pattern : Semester
7. Level : 5
8. Theory Practical Ratio : 27 : 73
9. In-house/Field Training : Job oriented practical attachment & Project work
10. Internship Guidelines : One Month Internship is mandatory for the award of diploma

2. EMPLOYMENT OPPORTUNITIES

Diploma holders in Industrial Safety Management will make choices about the best procedures to adopt to address problems where the choices are clear. Individuals in jobs which require level 5 qualifications will normally be responsible for the completion of their own work and expected to learn & improve their performance on the job. They will require well developed practical & cognitive skills to complete their work. They may also have some responsibility for others' work & learning. People carrying out these jobs may be described as "fully skilled workers" or "supervisors".

India is fast emerging as a global economic superpower. This would necessitate setting up of many industries with a large number of job opportunities coming up in the Safety sector. With the increase in technology, rate of accidents have increased exponentially. There is a dire need of trained professionals in the field of Safety. There are tremendous avenues & potential for the right, hardworking, sincere and humane candidates.

There is currently a lack of trained professionals as industrial safety is an emerging stream and is also one of the hottest career avenues of the millennium.

There are opportunities in this field both in India and abroad. Fresh degree holders can start as Safety Supervisors/Safety Officers. Government as well as private industries employ safety professionals. As and when the HSE Act is implemented strictly in India like in abroad, there

will be large number of vacancies for Safety Officers within India itself in Government as well as public sector.

In large industries, a Safety Manager may be given a multi-crore Safety project and hundreds of employees to manage besides overseeing safety implementation and development. A Safety Manager works like a HR Manager who is supposed to report to the Project Manager/CEO or the governing body of any Industry. The safety sector has its investment expanded to over hundred Crores in India and abroad. Safety is on its way to the top of the career sweepstakes globally.

3. LEVEL - 5 COMPLIANCE

Learning Outcome Competency Based Curriculum has defined total Ten Levels. Each level of the is associated with a set of descriptors made up of five outcome statements, which describe in general terms, the minimum knowledge, skills and attributes that a learner needs to acquire in order to be certified for that level.

Each level is described by Learning outcomes in following five Domains known as Level descriptors.

Process	Professional Knowledge	
Professional Skill	Core Skill	Responsibility

The level-5 description is given below:

Process

Job that requires well developed skill, with clear choice of procedures in familiar context.

Professional Knowledge

Knowledge of facts, principles, processes and general concepts, in a field of work or study.

Professional Skill

A range of cognitive and practical skills required to accomplish tasks and solve problems by selecting and applying basic methods, tools, materials and information.

Core Skill

Desired mathematical skill; understanding of social, political; and some skill of collecting and organising information, communication.

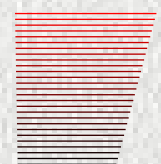
Responsibility

Responsibility for own work and learning and some responsibility for others' works and learning.



PG, Diploma in Industrial Safety Management

Duration : 12 Months
Eligibility: Graduation



Level – 7



1. SALIENT FEATURES

1. Programme Name : PG. Diploma in Industrial Safety Management
2. Programme Duration : 12 Months
3. Program Hours : 1650
4. Entry Qualification : Graduation
5. Student Intake : As per sanctioned strength
6. Programme Pattern : Semester
7. Level : 7
8. Theory Practical Ratio : 27 : 73
9. In-house/Field Training : Job oriented practical attachment and Project work
10. Internship Guidelines : One Month Internship is mandatory for the award of PG. Diploma

2. EMPLOYMENT OPPORTUNITIES

PG diploma holders in Industrial Safety Management will carry out a broad range of work which requires wide-ranging specialised theoretical and practical skills. Individuals in jobs which require level 7 qualifications will normally be responsible for the output and development

of a work group within an organisation. People carrying out these job roles are likely to be graduates. They may be described as “managers” or “senior technicians”.

Individuals employed to carry out these job roles will be expected to be able to communicate clearly in speech & writing & are likely to be required to carry out mathematical calculations as part of their work. They should also be skilful in collecting & organising information to communicate logically about the work.

So PG Diploma in Industrial Safety Management will impart one with a perspective which enables to relate to the safety environment within which one may operate. The student will be able to understand the impact of various safety aspects, work place hazards & play a significant role towards providing a safe & healthy working environment for workers. The PG Diploma Program will also help understand safety management & accident control sufficiently to plan a career & entrepreneurial moves successfully. &, of course, a more rewarding life, a better set of peers & recognition by society are sources of additional satisfaction.

This program is focused on producing efficient & effective Safety Officers for a Unit, Safety Consultant, Safety Programmer etc. in the field of Industrial safety. The program incorporates basic concepts & techniques of modern industrial safety administration & processes for

power distribution, effective leadership, appropriate safety control systems, their evaluation, their importance & role in effectively administering the safety organizations. The program provides harmonious avenue for aspiring safety professionals to interact & exchange views, ideas & knowledge with academicians, safety professionals, health professionals, environment professionals & Fire engineering practitioners of industrial safety organizations within the country & abroad.

The program specifically aims to deepen the student’s knowledge & ability to manage safety operations. The course will engage the students in conceptual thinking, analysis & research strategically, however, it seeks to take him/her beyond the analytical emphasis of many other UG programs & encourages the student to develop & implement creative ideas & solutions to creating an accident/incident/disease free working environment.

3. LEVEL - 7 COMPLIANCE

Learning Outcome Competency Based Curriculum has defined total Ten Levels. Each level of the is associated with a set of descriptors made up of five outcome statements, which describe in general terms, the minimum knowledge, skills and attributes that a learner needs to acquire in order to be certified for that level.

Each level is described by Learning outcomes in following five Domains known as Level descriptors.

Process	Professional Knowledge	
Professional Skill	Core Skill	Responsibility

The level-7 descriptor is given below:

Process

Requires a command of wide ranging specialized theoretical and practical skills, involving variable routine and non routine contexts.

Professional Knowledge

Wide-ranging factual and theoretical knowledge in broad contexts within a field of work or study.

Professional Skill

Wide range of cognitive and practical skills required to generate solutions to specific problems in a field of work of study.

Core Skill

Good logical and mathematical skill understanding of social political and natural environment & organising information, communication and presentation skill.

Responsibility

Full responsibility for output of group and



PG, Diploma in Fire Technology & Industrial Safety Operations

Duration : 12 Months
Eligibility: Graduation

Level – 6



1. SALIENT FEATURES

1. Programme Name : PG. Diploma in Fire Technology & Safety Operations
2. Programme Duration : 12 Months
3. Program Hours : 1650
4. Entry Qualification : Graduation
5. Student Intake : As per sanctioned strength
6. Programme Pattern : Semester
7. Level : 6
8. Theory Practical Ratio : 30 : 70
9. In-house/Field Training : Job oriented practical attachment and Project work
10. Internship Guidelines : One Month Internship after the first semester is mandatory for the award of PG Diploma

2. EMPLOYMENT OPPORTUNITIES

In government, industrial and other enterprises, skilled man power is required to carry out a broad range of work which will require a wide range of specialised technical skills backed by clear factual and theoretical knowledge. Post Graduate diploma holders in **Fire Technology & Industrial Safety Operations** will be responsible for the completion of their own work and expected to learn and improve their performance on the job. They are likely to have full responsibility for others' work and learning. People carrying out these jobs may be described as "**Master Technicians**" and "**Trainers**".

Master Technicians or Trainers are expected to communicate clearly in speech and writing and may be required to carry out mathematical calculations. They should also be able to collect data, organise information, and communicate logically about the work. They will solve problems by selecting and applying methods, tools, materials and information. They will be expected to have broad factual and theoretical knowledge applying to practice within the occupation, and a range of practical and cognitive skills. They will be able to generate solutions to problems which arise in their practice.

Candidates after passing out from the program have wide scope in the department of armed forces, Multi National Companies, public sectors, industries, construction firms, Oil companies etc. wherever the risk of accidents and need of security measures are more. The overall goal of the program is to train the students by giving a broader view of the situation at hand. It will help the student to appropriately deal with conditions of fire, preventing accidents and ways of controlling mishaps.

Post Graduate Diploma in Fire Technology and Industrial Safety Operations prepares the students to handle real-life situations with strength and courage without panicking as well as safeguarding the lives of others. As the issue of safety is one of the primary and important aspects in the present time, candidates after the successful completion of course, find it lucrative to find a job in private and government sectors. They can work for Refineries, Industries, Electricity boards, Fire safety Training Institutes, Armed forces, Chemical plants and other such guiding them towards safety.

3. LEVEL - 6 COMPLIANCE

Learning Outcome Competency Based Curriculum has defined total Ten Levels. Each level of the is associated with a set of descriptors made up of five outcome statements, which describe in general terms, the minimum knowledge, skills and attributes that a learner needs to acquire in order to be certified for that level.

Each level is described by Learning outcomes in following five Domains known as Level descriptors.

Process	Professional Knowledge	
Professional Skill	Core Skill	Responsibility

The level-6 descriptor is given below:

Process

Demands a wide range of specialized technical skill, clarity of knowledge and practice in broad range of activity involving standard and nonstandard

Professional Knowledge

Factual and theoretical knowledge in broad contexts within a field of work or study.

Professional Skill

A range of cognitive and practical skills required to generate solutions to specific problems in a field of work or study.

Core Skill

Reasonable good in mathematical calculation, understanding of social, political and reasonably good in data collecting organising information, and logical communication.

Responsibility

Responsibility for own work and learning and full responsibility for other's works and learning.



Certificate in Sub Fire Officer

Duration : 9 Months
Eligibility: Graduation in any stream with 06 Months relevant Experience / Certification



Level – 7



1. SALIENT FEATURES

1. Programme Name : Sub Fire Officer
2. Programme Duration : 9 Months
3. Program Hours : 1100
4. Entry Qualification : Graduation in any stream with 06 months relevant experience / Certification
5. Student Intake : As per sanctioned strength
6. Programme Pattern : Semester/Trimester
7. Level : 7
8. Theory Practical Ratio : 21 : 79
9. In-house/Field Training : Job oriented practical attachment and Project work
10. Internship Guidelines : One Month Internship after the first semester is mandatory for the award of PG Diploma

2. EMPLOYMENT OPPORTUNITIES

In government, industrial and other enterprises, **Sub Fire Officers** are required to carry out a broad range of work which requires wide-ranging specialised theoretical and practical skills. They are required for the output and development of a work group within an organisation. They are likely to be graduates with some relevant experience and acts “**Managers**” or “**Senior Technicians**”.

Sub Fire Officers are expected to communicate clearly in speech and writing and are likely to be required to carry out mathematical calculations as part of their work. They should also be skilful in collecting and organising information to communicate logically about the work. They will be expected to have wide-ranging factual and theoretical knowledge of practice within the occupation, and a wide range of specialised practical and cognitive skills. They will be able to generate solutions to problems which arise in their work. They will be expected to understand what constitutes quality in the occupation and distinguish between good and bad quality in all aspects of their work. They will be expected to work in ways which show a good understanding of environmental issues. They will take account of health and safety issues as they affect the work they carry out and manage.

Sub Fire Officers have wide scope in the department of armed forces, Multi National Companies, public sectors, industries, construction firms, Oil companies etc. wherever the risk of accidents and need of security measures are more. The overall goal of the program is to train the candidates by giving a broader view of the situation at hand. It will help the candidate to appropriately deal with conditions of fire, preventing accidents and ways of controlling mishaps. Sub Fire Officer is expected to handle real-life situations with strength and courage without panicking as well as safeguarding the lives of others. As the issue of safety is one of the primary and important aspects in the present time, candidates after the successful completion of course, find it lucrative to find a job in private and government sectors. They can work for Refineries, Industries, Electricity boards, Fire safety Training Institutes, Armed forces, Chemical plants and other such guiding them towards safety.

3. LEVEL - 7 COMPLIANCE

Learning Outcome Competency Based Curriculum has defined total Ten Levels. Each level of the is associated with a set of descriptors made up of five outcome statements, which describe in general terms, the minimum knowledge, skills and attributes that a learner needs to acquire in order to be certified for that level.

Each level is described by Learning outcomes in following five Domains known as Level descriptors.

Process	Professional Knowledge	
Professional Skill	Core Skill	Responsibility

The level-7 descriptor is given below:

Process

Requires a command of wide ranging specialized theoretical and practical skills, involving variable routine and non routine contexts.

Professional Knowledge

Wide-ranging factual and theoretical knowledge in broad contexts within a field of work or study.

Professional Skill

Wide range of cognitive and practical skills required to generate solutions to specific problems in a field of work of study.

Core Skill

Good logical and mathematical skill understanding of social political and natural environment and organising information, communication and presentation skill.

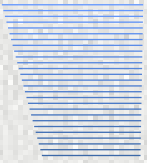
Responsibility

Full responsibility for output of group and development.

General Duty Assistance Nursing Assistant

Duration : 6 Months
Eligibility: 10th Pass

Level – 3



1. SALIENT FEATURES

1. Programme Name : General Duty Assistance (Nursing Assistant)
2. Programme Duration : 6 Months
3. Program Hours : 864
4. Entry Qualification : 10th Pass
5. Student Intake : As per sanctioned strength
6. Programme Pattern : Semester
7. Level : 3
8. Theory Practical Ratio : 34 :66
9. In-house/Field Training : Job oriented practical attachment

2. EMPLOYMENT OPPORTUNITIES

The General Duty Assistant (Nursing Assistant) or GDA (NA) program is designed to provide quality care to patients admitted in nursing homes and hospitals. Upon successful completion of the General Duty Assistant course, students become qualified to take the Healthcare Sector Skills Council competency exam and students become certified General Duty Assistants and thus work in an efficient and knowledgeable manner. Career as a staff nurse can be described with the form of responsibilities and tasks they provide. Although some are generally involved in preparing and identifying requirements for patient care, performing the operative treatment, others are expected to maintain medical records, manage and control routine check-ups and medication.

The General Duty Assistant (GDA)/NA course trains students to work as nursing aides in hospitals, nursing homes and home care scenarios. A GDA works in close collaboration with doctors, nurses and other healthcare providers. This job requires the individual to work in collaboration with Doctors and Nurses and other healthcare providers and deliver the healthcare services as suggested by them. The nursing assistant course lays special emphasis on inculcating empathetic and ethical behaviour beyond patient care. Some of the key responsibilities of the General Duty Assistant are to provide daily care, look after the patient's comfort, safety and health needs.

GDAs/NAs have the option of working in hospitals, long-term care facilities, clinics, physician's offices, prisons, from home, as a traveling nurse in hospitals across the country, and in many other specialty roles. A General Duty Assistant/Nursing Assistant can grow through promotions, experience and education to the profile of a Clinical Nurse Supervisor and finally achieve the position of a Head Nurse. Potential employers include large hospitals, private clinics and medical research institutes. This clearly shows that there is sufficient scope of growth in the career of a General Duty Assistant.

3. LEVEL - 3 COMPLIANCE

Learning Outcome Competency Based Curriculum has defined a total Ten Levels. Each level of the is associated with a set of descriptors made up of five outcome statements, which describe in general terms, the minimum knowledge, skills and attributes that a learner needs to acquire in order to be certified for that level.

Each level is described by Learning outcomes in following five Domains known as Level descriptors.

Process	Professional Knowledge	
Professional Skill	Core Skill	Responsibility

The level-3 descriptor is given below:

Process

Person may carry out a job which may require limited range of activities routine and predictable.

Professional Knowledge

Basic facts, process and principle applied in trade of employment

Professional Skill

Recall and demonstrate practical skill, routine and repetitive in narrow range of application.

Core Skill

Communication written and oral, with minimum required clarity, skill of basic arithmetic and algebraic principles, personal banking, basic understanding of social and natural environment.

Responsibility

Under close supervision. Some responsibility for own work within defined limit.



Fireman Ship

**Duration : 6 Months,
Eligibility: 10th Pass**



Level – 4



1. SALIENT FEATURES

- | | | |
|----------------------------|---|--|
| 1. Programme Name | : | Fireman ship |
| 2. Programme Duration | : | 09 Months |
| 3. Program Hours | : | 1100 |
| 4. Entry Qualification | : | 10th Pass |
| 5. Student Intake | : | As per sanctioned strength |
| 6. Programme Pattern | : | Semester/Trimester |
| 7. Level | : | 4 |
| 8. Theory Practical Ratio | : | 21 : 79 |
| 9. In-house/Field Training | : | Job oriented practical attachment and Project work |
| 10. Internship Guidelines | : | One Month Internship is mandatory for the award of certification |

2. EMPLOYMENT OPPORTUNITIES

In government, industrial and other enterprises, skilled manpower is required to carry out a broad range of work which requires wide-ranging specialised theoretical and practical skills. They will be responsible for carrying out a range of jobs, some of which will require them to make choices about the approaches they adopt. They will be expected to learn and improve their practice on the job. People carrying out these jobs may be described as **“Skilled Workers”**.

They should be able to communicate clearly in speech and writing and may be required to use arithmetic and algebraic processes. They will be expected to have previous knowledge and skills in the occupation in which they are employed, to appreciate the nature of the occupation and to understand and apply the rules which govern good practice. They will be able to make choices about the best way to carry out routine jobs where the choices are clear.

They will be expected to understand what constitutes quality in the occupation and will distinguish between good and bad quality in the context of their job roles. Job holders at this level will be expected to carry out their work safely and securely and take full account of the health and safety on colleagues and customers. They will work hygienically and in ways which show an understanding of environmental issues.

Fireman ship students have wide scope in the department of armed forces, Multi National Companies, public sectors, industries, construction firms, Oil companies etc. wherever the risk of accidents and need of security measures are more. The overall goal of the program is to train the candidates by giving a broader view of the situation at hand. It will help the student to appropriately deal with conditions of fire, preventing accidents and ways of controlling mishaps.

Fireman ship students are expected to handle real-life situations with strength and courage without panicking as well as safeguarding the lives of others. As the issue of safety is one of the primary and important aspects in the present time, candidates after the successful completion of course, find it lucrative to find a job in private and government sectors. They can work for Refineries, Industries, Electricity boards, Fire safety Training Institutes, Armed forces, Chemical plants and other such guiding them towards safety.

3. LEVEL - 4 COMPLIANCE

Learning Outcome Competency Based Curriculum has defined total Ten Levels. Each level of the is associated with a set of descriptors made up of five outcome statements, which describe in general terms, the minimum knowledge, skills and attributes that a learner needs to acquire in order to be certified for that level.

Each level is described by Learning outcomes in following five Domains known as Level descriptors.

Process	Professional Knowledge	
Professional Skill	Core Skill	Responsibility

The level- 4 descriptor is given below:

Process

Work in familiar, predictable, routine, situation of clear choice.

Professional Knowledge

Factual knowledge of field of knowledge or study.

Professional Skill

Recall and demonstrate practical skill, routine and repetitive in narrow range of application, using appropriate rule and tool, using quality concepts.

Core Skill

Language to communicate written or oral, with required clarity, skill to basic arithmetic and algebraic principles, basic understanding of social political and natural environment.

Responsibility

Responsibility for own work and learning and some responsibility for others' works & learning.

PROGRAM OUTCOMES

The program outcomes are derived from five domains of 10 Learning Outcome Competency Based Curriculum, NEP and Outcome based education namely Process, Professional Knowledge, Professional Skill, Core Skill, Responsibility. After completing this programme, the student will be able to:

PO1: Perform a task in familiar situation with clear choice of procedures.

PO2: Acquire knowledge of principles and processes in.

PO3: Develop skills to accomplish tasks and solve problems using methods, tools, materials & information.

PO4: Demonstrate skill of collecting and organizing information.

Po5: Take responsibility of own work and learning along with some responsibility of others work &.

INTERNSHIP GUIDELINES

The purpose of internship is to enable the students to have understanding of materials, processes and practices in and their ability to engage in activities related to problem solving in situation as well as understanding of application of knowledge.

Internship provides an opportunity to students to experience the environment and culture of units and commercial activities being undertaken in the relevant services fields. It prepares the students for their future role in the world of work and enables them to integrate theory with practice.

To organize internship in an effective way, the concerned HOD along with other teachers will guide and help the students in arranging appropriate training places. It is suggested that a training schedule may be drawn for each student before starting of the training in consultation with the training providers. Students should also be briefed in advance about the organizational setup, product range, equipment, operations, processes and materials being used in the training organization. Equally important is supervision of students training in the field by the teachers. Students should be encouraged to write daily report in their diary to enable them to write final report and its

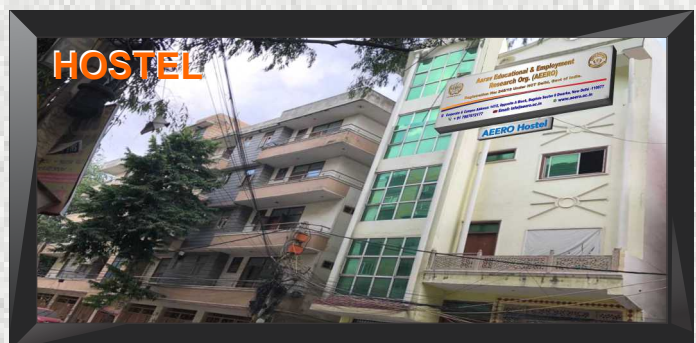
THE FOLLOWING ASSESSMENT TOOLS ARE USED FOR EFFECTIVE STUDENT EVALUATION:

1. Theory
2. Practical Work
3. Job oriented Practical Attachment / Project Work
4. Professional Industrial Training/ Internship
5. Viva Voce
6. Case Studies

LIST OF EXPERT

1. **Mr. A.P. Sharma**, General Manager, Ministry of Micro, Small and Medium Enterprises, Central Tool Room, Ludhiana, Punjab
2. **Mr. Jagdeep Saini**, Ministry of Micro, Small and Medium Enterprises, CTR, Ludhiana.
3. **Mr. Rakesh Pati**, Senior Manager, Ministry of Micro, Small and Medium Enterprises, Bhiwadi, Rajasthan.
4. **Mr. Yogindra Kaushik**, Assistant General Manager & Head Skill Development, Hartron, Multi Skill Development Centre, Gurgaon, Haryana.
5. **Mr. Lalit Gabhane**, Director General, National Safety Council, Mumbai.
6. **R.N Meena**, Director, Central Labour Institute, Mumbai, & Directorate General, Factory Advice and Labour Institutes Under Ministry of Labour & Employment, Government of India.
7. **Mr. U.S. Chhilar**, General Secretary, Institution of Fire Engineers, India.
8. **Mr. Rahul Soni**, Chairman, Co-Founder & MD, Aarav Educational Employment & Research Organization, New Delhi.
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16. **Mr. Sajid Khan**, Assistant Fire Office, Fire Station, Bhopal Municipal Corporation, Govt. of Madhya Pradesh.
17. **Mr. GS Sethi**, Deputy Director General (Retd.), Director of General Employment Training, Mohali, Punjab.
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19. **Mr. Mayur Gautam Sarnaik**, Safety Officer, Pepsico India Holding Pvt. Ltd., Pune, Maharashtra.
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25. **Mr. Deepkant Chaturvedi**, HOD Pediatrics Department, Shimla Nursing College, Shimla.
26. **Ms. Ritika Soni**, Associate Professor, Shimla Nursing College, Shimla, Himachal Pradesh.
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