

## INTRODUCTION

Electricity is widely used in workplaces and industrial operations, but improper handling can lead to serious hazards such as electric shock, arc flash, fire and explosion. This training provides essential knowledge and practical awareness to help participants recognize electrical hazards, apply safe work practices, and prevent electrical-related accidents

## OBJECTIVE

### Participants will benefit by being able to:

- Understand legal requirements related to electrical safety
- Identify common electrical hazards and unsafe practices
- Apply safe work procedures including LOTO and PTW systems
- Use electrical equipment and PPE safely
- Respond appropriately during electrical emergencies

## COURSE CONTENTS

<b>Introduction &amp; Legal Requirements</b>	<ul style="list-style-type: none"> <li>➤ Importance of electrical safety</li> <li>➤ OSHA 1994 &amp; Electricity Supply Act 1990</li> <li>➤ Roles and responsibilities</li> <li>➤ Electrical accident case study</li> </ul>
<b>Electrical Hazards &amp; Risks</b>	<ul style="list-style-type: none"> <li>➤ Basic electrical concepts and electric shock</li> <li>➤ Arc flash, burns, fire and explosion risks</li> <li>➤ Unsafe conditions and work practices</li> <li>➤ Common causes of electrical accidents</li> </ul>
<b>Risk Control &amp; Safe Work Practices</b>	<ul style="list-style-type: none"> <li>➤ Hierarchy of control measures</li> <li>➤ Lockout Tagout (LOTO) procedures</li> <li>➤ Permit-to-Work (PTW) system</li> <li>➤ Safe use of tools and test instruments</li> </ul>
<b>Equipment &amp; Protection Systems</b>	<ul style="list-style-type: none"> <li>➤ Electrical equipment inspection</li> <li>➤ Safe use of extension cords and portable tools</li> <li>➤ Earthing, bonding and protective devices</li> <li>➤ Housekeeping and cable management</li> </ul>
<b>Special Environment &amp; Emergency Response</b>	<ul style="list-style-type: none"> <li>➤ Electrical safety in wet, confined and hazardous areas</li> <li>➤ Emergency response and rescue procedures</li> <li>➤ CPR awareness and electrical fire response</li> <li>➤ Incident reporting and lessons learned</li> </ul>
<b>Assessment &amp; Practical</b>	<ul style="list-style-type: none"> <li>➤ Practical demonstration (LOTO &amp; inspection)</li> <li>➤ Quiz/ written assessment</li> </ul>

## CERTIFICATION

Certificate of Attendance

## TARGET GROUP

- Production/Maintenance Supervisors
  - Employees involved in electrical work
  - Personnel interested in electrical safety
- Maximum 25 Participants

## METHODOLOGY

Discussion

Demonstration

Practical Exercise

HRDF SBL-KHAS  
Claimable



## ABOUT SPEAKER

### Trainer:

MALEK ALANG (HRD Corp Certified Trainer / Freelance HSE Trainer & Consultant)

### Education

MBA in International Business, University of East London (UEL), UK

Diploma in Manufacturing Management, FMM Institute

### Qualification

- HRD Corp Certified Trainer & NIOSH Certified Train The Trainer
- Over 30 years Of experience in Health, Safety & Environment (HSE) across multiple industries
- Extensive experience in construction, oil & gas, logistics, manufacturing and mining industries
- Certified SHO, ISO 45001 Lead Auditor & Fire Fighting Trainer
- Experienced in HSE audit, risk assessment, emergency response and safety management systems

## FOR MORE DETAIL, PLEASE CONTACT

### YN Safety and Health Consultancy Services

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Other Safety and Health Consultancy Services are provided. Please contact to get more details.