

# **Hazardous Areas CompEx Mechanical & Flange Joint Integrity Course (Ex11) (Virtual Classroom + Practical Assessment)**

## **Course Overview:**

This course is to determine the core competency of mechanical personnel. The training programme and syllabus cover the selection, assembly and routines associated with mechanical equipment for use in hazardous areas. This will meet the competency requirements for EN 13463 Parts 1, 5 & 6 for operatives working with mechanical equipment. Successful candidates will demonstrate the knowledge and skills to meet the requirements highlighted in the IEC 60079 series of standards and the relevant national standards and directives.

## **Who Should Attend:**

This qualification is suitable for practicing mechanical operatives who are involved in installing, inspecting and maintaining non-electrical (mechanical) equipment in locations where gases, vapours and/or dusts can potentially create a hazardous area.

## **Entry Requirements:**

Applicants should possess the assumed skills and knowledge as outlined in the competency standards as follows:

- Must have good standards of both written and verbal English.
- Possess mechanical qualification from the vocation schools that enable us to determine the mechanical competency.
- Possess Employment certification (Clearly indicate the mechanical work experience in the recent years)

## **Course Syllabus:**

- Hazardous areas overview
- Ignition sources of gas and dust
- Introduction to Area classification
- Categories, EPLs & Marking / labelling
- Equipment for use in hazardous areas
- Repairs & Modifications
- Requirements for ATEX and IECEx non-electrical equipment and assemblies
- Basic Mechanical Standards (BS EN 13463 part 1, 5 &6) (ISO 80079-36,37)
- Bearings, seal, spares, coupling, lubrication etc
- Safety issues during overhaul
- Commissioning / de-commissioning
- Inspection and maintenance – Torque tools & bolting procedure
- Selection and use of gaskets, flanges, bolts and pipe integrity

## **Course Duration (Days):**

1 Day Virtual + 1 Day Classroom Practical

## **Assessment:**

### **Theoretical :-**

60MCQ

### **Practical :-**

Visual inspection, measurement and selection of appropriate tools Assembly and blanking of the flange with the selection of the correct part Pressure test of the flange connection Safe disassembly of a flange joint

## **Certification:**

Candidates who are successful in both the theory and practical assessments will receive a CompEx Certificate in Core Competence.

# Blended Learning - Lesson Plan:

1 Day Theory Training: – To be held as per schedule (online-virtual)

- Candidate will sign up for virtual classroom as per the given schedule.
- Candidate is required to attend the full theory training. Attendance will be recorded in order to take the 1day practical assessment course at the training centre

1 Day Assessment Course: To be held as per class schedule (Training Centre - Singapore)

Training Methodology – Theory revision & Practical Assessment via Classroom and assessment bays

- Revise learning process (Theory)
- Flange Integrity assembly demo (Practical Training)
- Inspection & Flange Integrity (Practical assessment)

## Requirement:

- Candidate will require to equip with good internet connection (i.e. bandwidth 1.5Mbps up / 1.5 Mbps down), speaker.
- Candidate is required to schedule the 1 day assessment course within 6 months upon completion of the 1 day virtual training (theory). ATTS will consider appropriate to extend the leadtime in cases where it is not possible to travel due to Covid 19 outbreak .

## BOOK A COURSE

Please contact the Administrator – [enquiry@atts-asia.com](mailto:enquiry@atts-asia.com) for course registration