

**COURSE OVERVIEW ME0578(OA1)**  
**Belt Conveyor Maintenance and Safety**

**Course Title**

Belt Conveyor Maintenance and Safety

**Course Date/Venue**

Session 1: January 12-16, 2025/Boardroom  
 1, Elite Byblos Hotel Al Barsha,  
 Sheikh Zayed Road, Dubai, UAE

Session 2: July 14-18, 2025/Fujairah Meeting  
 Room, Grand Millennium Al  
 Wahda Hotel, Abu Dhabi, UAE

**Course Reference**

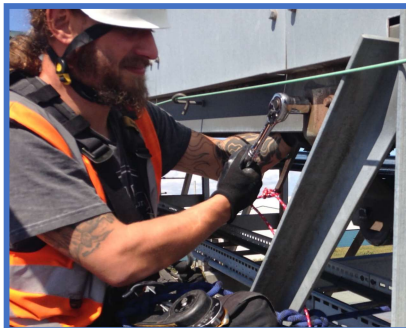
ME0578(OA1)

**Course Duration/Credits**

Five days/3.0 CEUs/30 PDHs



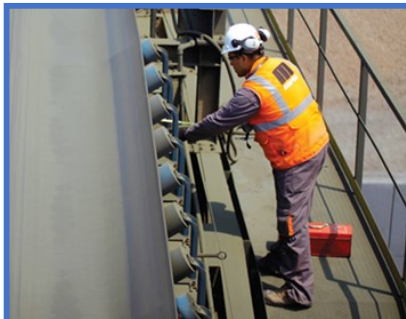
**Course Description**



***This hands-on, highly-interactive course includes real-life case studies and exercises where participants will be engaged in a series of interactive small groups and class workshops.***



Conveyors are durable and reliable components used in automated distribution and warehousing, as well as manufacturing and production facilities. In combination with computer-controlled pallet handling equipment this allows for more efficient retail, wholesale and manufacturing distribution. It is considered a labor saving system that allows large volumes to move rapidly through a process, allowing companies to ship or receive higher volumes with smaller storage space and with less labor expense.



This course is designed to provide participants with a detailed and up-to-date overview of conveyor systems operation and maintenance. It covers various types of conveyors; the most common types of conveyor belts and their characteristics; the components of a conveyor belt assembly and each function; the types of conveyor belt splices and characteristics; the inspection of a conveyor belt for camber and squareness of joint and each limit; checking and maintaining the alignment of the frame and conveyor components; and the installation of a conveyor belt and adjustment to the proper tension.



### **Course Objectives**

Upon the successful completion of this course, each participant will be able to:-

- Apply systematic techniques on conveyor systems operation and maintenance
- Identify the various types of conveyors, the most common types of conveyor belts and their characteristics
- Recognize the components of a conveyor belt assembly and distinguish each function
- List the types of conveyor belt splices and each characteristics
- Inspect a conveyor belt for camber and squareness of joint and determine each limit
- Check and maintain the alignment of the frame and conveyor components
- Install a conveyor belt and adjust to the proper tension

### **Who Should Attend**

This course covers systematic techniques on conveyor systems operation and maintenance for all mechanical engineers.

### **Course Fee**

**US\$ 5,500** per Delegate + **VAT**. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

### **Accommodation**

Accommodation is not included in the course fees. However, any accommodation required can be arranged at the time of booking.

### **Training Methodology**

All our Courses are including **Hands-on Practical Sessions** using equipment, State-of-the-Art Simulators, Drawings, Case Studies, Videos and Exercises. The courses include the following training methodologies as a percentage of the total tuition hours:-

- 30% Lectures
- 20% Practical Workshops & Work Presentations
- 30% Hands-on Practical Exercises & Case Studies
- 20% Simulators (Hardware & Software) & Videos


In an unlikely event, the course instructor may modify the above training methodology before or during the course for technical reasons.

**Course Certificate(s)**

Internationally recognized certificates will be issued to all participants of the course who completed a minimum of 80% of the total tuition hours.


**Certificate Accreditations**

Certificates are accredited by the following international accreditation organizations: -

- 

British Accreditation Council (BAC)

Haward Technology is accredited by the **British Accreditation Council** for **Independent Further and Higher Education** as an **International Centre**. BAC is the British accrediting body responsible for setting standards within independent further and higher education sector in the UK and overseas. As a BAC-accredited international centre, Haward Technology meets all of the international higher education criteria and standards set by BAC.

- 

The International Accreditors for Continuing Education and Training (IACET - USA)

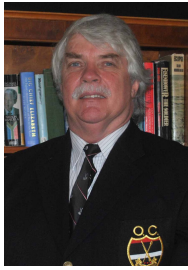
Haward Technology is an Authorized Training Provider by the International Accreditors for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 600, Herndon, VA 20171, USA. In obtaining this authority, Haward Technology has demonstrated that it complies with the **ANSI/IACET 2018-1 Standard** which is widely recognized as the standard of good practice internationally. As a result of our Authorized Provider membership status, Haward Technology is authorized to offer IACET CEUs for its programs that qualify under the **ANSI/IACET 2018-1 Standard**.

Haward Technology’s courses meet the professional certification and continuing education requirements for participants seeking **Continuing Education Units (CEUs)** in accordance with the rules & regulations of the International Accreditors for Continuing Education & Training (IACET). IACET is an international authority that evaluates programs according to strict, research-based criteria and guidelines. The CEU is an internationally accepted uniform unit of measurement in qualified courses of continuing education.

Haward Technology Middle East will award **3.0 CEUs** (Continuing Education Units) or **30 PDHs** (Professional Development Hours) for participants who completed the total tuition hours of this program. One CEU is equivalent to ten Professional Development Hours (PDHs) or ten contact hours of the participation in and completion of Haward Technology programs. A permanent record of a participant’s involvement and awarding of CEU will be maintained by Haward Technology. Haward Technology will provide a copy of the participant’s CEU and PDH Transcript of Records upon request.

**Course Instructor(s)**

This course will be conducted by the following instructor(s). However, we have the right to change the course instructor(s) prior to the course date and inform participants accordingly:



**Mr. Den Bazley, PE, BSc**, is a **Senior Mechanical Engineer** with over **30 years** of industrial experience in **Oil, Gas, Refinery, Petrochemical, Power and Utilities** industries. His wide expertise includes **SemiPortable Re-Claimer and Belt Conveyors System, Cold & Hot Vulcanizing of Conveyor Belt, Conveyor Systems Operation & Maintenance, Pumps & Compressors Maintenance & Troubleshooting, Centrifugal Pump Design, Hydraulic Turbines, Axial Flow Compressor, Centrifugal Pump Installation & Operation, Centrifugal Pump Maintenance & Troubleshooting, Centrifugal & Positive Displacement Pump Technology, Pumps & Valves Operation, Bearings, Seals & Couplings, Compressors & Turbines Maintenance & Troubleshooting, Gas Turbine Design & Maintenance, Gas Turbine Troubleshooting, Pressure Vessel Design, Fabrication & Testing, Tank & Tank Farms, Heat Exchangers Operation & Maintenance, Boilers & Steam System Management, Re-tubing & Tube Expanding Technology, Propylene Compressor & Turbine, Valve Installation & Repair, Safety Relief Valve Sizing & Troubleshooting, Dry Gas Seal Operation, Mechanical Seal Installation & Maintenance, Industrial Equipment & Turbomachinery, Pumps, Compressors, Turbines & Motors, Boiler & Steam System Management, Tune-Up, Heat Recovery & Optimization, Bearing & Lubrication, Installation & Failure Analysis, Boiler Operation & Maintenance, Process Control Valves, Steam Turbine Operation, Bearing Mounting/Dismounting, Valve Types, Troubleshooting & Repair Procedure, Pressure Vessels & Heat Exchangers, Corrosion Inspection, PSV Maintenance & Testing, Pump Maintenance, Machinery Troubleshooting, Valves, Safety Relief Valves, Strainers & Steam Traps, Pipeline Rules of Thumb, Analytical Prevention of Mechanical Failure, Gear Boxes Troubleshooting & Repair, Piping & Pipeline Design & Inspection, Pigging & Integrity Assessment, Process Piping Design, Pipeline Operation & Maintenance, Welding & Fabrication, Brazing, Fitness-for-Service (FFS), Process Plant Equipment, Pressure Vessels, Piping & Storage Facilities, Layout of Piping Systems & Process Equipment, Pipe Work Design & Fabrication, Mechanical Integrity & Reliability, Mechanical Rotating Equipment & Turbomachinery, Motors & Variable Speed Drives, Mechanical Engineering Design, Process Plant Shutdown, Turnaround & Troubleshooting, Mechanical Alignment, Laser & Dial-Indicator Techniques, Material Cataloguing, Condition Based Monitoring, Maintenance Management, Reliability Management, Reliability Centred Maintenance (RCM), Total Plant Maintenance (TPM) and Reliability-Availability-Maintainability (RAM), Engineering Drawings, Codes & Standards, P&ID Reading, Interpretation & Developing, Maintenance & Reliability Best Practices, Maintenance Auditing, Benchmarking & Performance Improvement, Excellence in Maintenance & Reliability Management, Preventive & Predictive Maintenance & Machinery Failure Analysis (RCFA), Total Plant Reliability Centered Maintenance (RCM), Rotating Equipment Reliability Optimization, Machinery Failure Analysis, Prevention & Troubleshooting, Maintenance Planning, Scheduling & Work Control and Maintenance Planning & Cost Estimation.**

During his career life, Mr. Bazley has gained his practical and field experience through his various significant positions and dedication as the **General Manager, Branch Manager, Refinery Chairman, Engineering Manager, Maintenance Engineer, Construction Engineer, Project Engineer, Mechanical Engineer, Associate Engineer, Oil Process Engineer, Mechanical Services Superintendent, Quality Coordinator, Planning Coordinator, Consultant/Instructor, Lecturer/Trainer** and **Public Relations Officer** for numerous international companies like **ESSO, FFS Refinery, Dorbyl Heavy Engineering (VECOR), Vandenbergh Foods (Unilever), Engen Petroleum, Royle Trust and Pepsi-Cola.**

Mr. Bazley is a **Registered Professional Engineer** and has a **Bachelor** degree in **Mechanical Engineering**. Further, he is a **Certified Engineer** (Government Certificate of Competency GCC Mechanical Pretoria), a **Certified Instructor/Trainer**, a **Certified Internal Verifier/Assessor/Trainer** by the **Institute of Leadership and Management (ILM)**, an active member of the **Institute of Mechanical Engineers (IMechE)** and has delivered numerous trainings, courses, seminars and workshops internationally.



### **Course Program**

The following program is planned for this course. However, the course instructor(s) may modify this program before or during the course for technical reasons with no prior notice to participants. Nevertheless, the course objectives will always be met:

#### **Day 1**

0730 - 0800	Registration & Coffee
0800 - 0815	Welcome & Introduction
0815 - 0830	<b>PRE-TEST</b>
0830 - 0930	<b>Drive or Head Pulley</b>
0930 - 0945	Break
0945 - 1100	<b>Drive or Head Pulley (cont'd)</b>
1100 - 1230	<b>Misalignment</b>
1230 - 1245	Break
1245 - 1420	<b>Misalignment (cont'd)</b>
1420 - 1430	<b>Recap</b>
1430	Lunch & End of Day One

#### **Day 2**

0730 - 0930	<b>Carrier Troughing Rollers</b>
0930 - 0945	Break
0945 - 1100	<b>Carrier Troughing Rollers (cont'd)</b>
1100 - 1230	<b>Carrier Troughing Rollers (cont'd)</b>
1230 - 1245	Break
1245 - 1420	<b>Carrier Troughing Rollers (cont'd)</b>
1420 - 1430	<b>Recap</b>
1430	Lunch & End of Day Two

#### **Day 3**

0730 - 0930	<b>Tracking</b>
0930 - 0945	Break
0945 - 1100	<b>Tracking (cont'd)</b>
1100 - 1230	<b>Tracking (cont'd)</b>
1230 - 1245	Break
1245 - 1420	<b>Tracking (cont'd)</b>
1420 - 1430	<b>Recap</b>
1430	Lunch & End of Day Three

#### **Day 4**

0730 - 0930	<b>Snub Pulleys</b>
0930 - 0945	Break
0945 - 1100	<b>Snub Pulleys (cont'd)</b>
1100 - 1230	<b>Snub Pulleys (cont'd)</b>
1230 - 1245	Break
1245 - 1420	<b>Snub Pulleys (cont'd)</b>
1420 - 1430	<b>Recap</b>
1430	Lunch & End of Day Four

**Day 5**

0730 – 0930	<b>Loading</b>
0930 – 0945	<i>Break</i>
0945 – 1100	<b>Loading (cont'd)</b>
1100 – 1230	<b>Self-Aligning Idlers</b>
1230 – 1245	<i>Break</i>
1245 – 1345	<b>Self-Aligning Idlers (cont'd)</b>
1345 – 1400	<b>Course Conclusion</b>
1400 – 1415	<b>POST-TEST</b>
1415 – 1430	<i>Presentation of Course Certificates</i>
1430	<i>Lunch &amp; End of Course</i>

**Practical Sessions**

This hands-on, highly-interactive course includes real-life case studies and exercises:-



**Course Coordinator**

Mari Nakintu, Tel: +971 2 30 91 714, Email: [mari1@haward.org](mailto:mari1@haward.org)