



COURSE OVERVIEW ME1245 **Visual Quality Inspection & Defect Detection in Packing & Packaging Operations**

Course Title

Visual Quality Inspection & Defect Detection in Packing & Packaging Operations

Course Date/Venue

Option 1: September 06-10, 2026/TBA Meeting Room, Dinamo Hotel Baku, Baku, Azerbaijan

Option 2: October 04-08, 2026/TBA Meeting Room, Voco Dubai, an IHG Hotel, Sheikh Zayed Road, Dubai, UAE or, Online Virtual Training

Course Reference

ME1245

Course Description



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

This course is designed to provide participants with a detailed and up-to-date overview of Visual Quality Inspection & Defect Detection in Packing & Packaging Operations. It covers the importance of visual quality inspection, packaging operations and packaging materials used in operations; the principles of visual inspection, packaging quality standards and FFS bag defects; the stretch hood film defects, pallet defects, packaging accessories defects, storage-related packaging defects and filling quality defects; the sealing quality inspection, printing and labeling defects, palletizing quality defects and stretch hood application defects; the finished pallet quality inspection, acceptance, rejection standards and visual inspection checklists; the defect classification and documentation of inspection findings; and the root cause analysis of packaging defects.

During this interactive course, participants will learn the defect prevention techniques through standard operating procedures, equipment checks, packaging material verification and preventive inspection practices; the common customer packaging complaints, investigation techniques, preventive improvements and continuous monitoring; maintaining inspection consistency, effective communication of defects, escalation procedures and shift quality ownership; and the continuous improvement in packaging quality covering quality KPIs, trend analysis and daily quality meetings.



Course Duration/Credits

Five days/3.0 CEUs/30 PDHs



Course Objectives/Outcomes & Benefits for the Participants

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

- Apply and gain an in-depth knowledge on quality inspection and defect detection in packing and packaging operations
- Discuss the importance of visual quality inspection, packaging operations and packaging materials used in operations
- Explain the principles of visual inspection, packaging quality standards and FFS bag defects
- Identify stretch hood film defects, pallet defects, packaging accessories defects, storage-related packaging defects and filling quality defects
- Carryout sealing quality inspection, printing and labeling defects, palletizing quality defects and stretch hood application defects
- Apply finished pallet quality inspection, acceptance and rejection standards and visual inspection checklists
- Employ defect classification, documentation of inspection findings and root cause analysis of packaging defects
- Implement defect prevention techniques through standard operating procedures, equipment checks, packaging material verification and preventive inspection practices
- Identify common customer packaging complaints and apply investigation techniques, preventive improvements and continuous monitoring
- Maintain inspection consistency, effective communication of defects, escalation procedures and shift quality ownership
- Implement continuous improvement in packaging quality covering quality KPIs, trend analysis and daily quality meetings

Exclusive Smart Training Kit - H-STK®



*Participants of this course will receive the exclusive “Haward Smart Training Kit” (H-STK®). The H-STK® consists of a comprehensive set of technical content which includes **electronic version** of the course materials conveniently saved in a **Tablet PC**.*

Who Should Attend

This course provides an overview of all significant aspects and considerations of visual quality inspection and defect detection in packing and packaging operations for packaging engineers, shift supervisors, senior operators and packing/packaging operators.

Course Fee

F2F Classroom: 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.

Online Virtual: US\$ 2,750 per Delegate + **VAT**.

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

Haward's 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**. Haward's certificates are internationally recognized and accredited by the British Accreditation Council (BAC). 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.

Accommodation

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



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:

Option 1: Mr. Karl Thanasis: September 06-10, 2026: Classroom - Baku, Azerbaijan



Mr. Karl Thanasis, PEng, MSc, MBA, BSc, is **Senior Mechanical & Maintenance Engineer** with over **30 years** of extensive industrial experience. His wide expertise includes **Visual Quality Inspection, Defect Detection in Packing & Packaging Operations, Packing & Packaging Operations, Piping & Pipeline, Maintenance, Repair, Shutdown, Turnaround & Outages, Maintenance & Reliability Management, Mechanical Maintenance Planning, Scheduling & Work Control, Advanced Techniques in Maintenance Management, Predictive & Preventive Maintenance, Maintenance & Operation Cost Reduction Techniques, Reliability Centered Maintenance (RCM), Machinery Failure Analysis, Rotating Equipment Reliability Optimization & Continuous Improvement, Material Cataloguing, Mechanical & Rotating Equipment Troubleshooting & Maintenance, Root Cause Analysis & Reliability Improvement, Condition Monitoring, Root Cause Failure Analysis (RCFA), Steam Generation, Steam Turbines, Power Generator Plants, Gas Turbines, Combined Cycle Plants, Boilers, Process Fired Heaters, Air Preheaters, Induced Draft Fans, All Heaters Piping Work, Refractory Casting, Heater Fabrication, Thermal & Fired Heater Design, Heat Exchangers, Heat Transfer, Coolers, Power Plant Performance, Efficiency & Optimization, Storage Tank Design & Fabrication, Thermal Power Plant Management, Boiler & Steam System Management, Pump Operation & Maintenance, Lubrication, Mechanical Seals, Packing, Blowers, Bearing Installation, Couplings, Clutches and Gears**. Further, he is also versed in **Wastewater Treatment Technology, Networking System, Water Network Design, Industrial Water Treatment in Refineries & Petrochemical Plants, Piping System, Water Movement, Water Filtering, Mud Pumping, Sludge Treatment and Drying, Aerobic Process of Water Treatment** that includes **Aeration, Sedimentation and Chlorination Tanks**. His strong background also includes **Design and Sizing of all Waste Water Treatment Plant Associated Equipment** such as **Sludge Pumps, Filters, Metering Pumps, Aerators and Sludge Decanters**.

Mr. Thanasis has acquired his thorough and practical experience as the **Project Manager, Plant Manager, Area Manager - Equipment Construction, Construction Superintendent, Project Engineer and Design Engineer**. His duties covered **Plant Preliminary Design, Plant Operation, Write-up of Capital Proposal, Investment Approval, Bid Evaluation, Technical Contract Write-up, Construction and Sub-contractor Follow up, Lab Analysis, Sludge Drying and Management of Sludge Odor and Removal**. He has worked in various companies worldwide in the **USA, Germany, England and Greece**.

Mr. Thanasis is a **Registered Professional Engineer** in the **USA and Greece** and has a **Master's and Bachelor's degree in Mechanical Engineering with Honours** from the **Purdue University and SIU in USA** respectively as well as an **MBA** from the **University of Phoenix in USA**. Further, he is a **Certified Internal Verifier/Trainer/Assessor** by the **Institute of Leadership & Management (ILM)** a **Certified Instructor/Trainer** and has delivered numerous trainings, courses, seminars, workshops and conferences worldwide.

Option 2: Mr. Graham Beck: October 04-08, 2026: Classroom – Dubai, UAE or, Online Virtual Training



Mr. Graham Beck, MBA, BSc, is a **Senior Process Engineer** with over **20 years** of extensive experience in the **Petrochemical** industry. His expertise covers **Packing & Packaging Operations, Packaging Quality Management, Packaging Material Inspection, Process Operations, Process Troubleshooting, Blowmoulding Process, Risk Management, Plastic Packaging & Product Solutions, Packaging Optimization, Polymer Technology, Plastic Extrusion Technology** and **Research & Development (R&D)**.

His expertise also covers quality assurance, logistics, procurement risk management and fire fighting. Currently, he is the **Chief Operating Manager** of **Xantium Integrated Solutions** where he is responsible for the development of innovative packaging and product solutions & systems.

During his career life, Mr. Beck gained his strong and problem solving skills, as well as sound management experience by working with several international companies and he has occupied significant and key positions such as a **General Manager, Operations Manager, Factory Manager, Manufacturing Manager, Production Manager, Production Superintendent, Chief Operating Officer** and **Process Engineer**.

Mr. Beck has **Master in Business Administration** and a **Bachelor degree in Mechanical Engineering** from the **Wits Business School** and **University of Cape Town** respectively. He has also obtained **Diploma in Packaging Technology** in **Wits Technikon**, **Polymer Technology** in **Pretoria Technikon**, **Management Advancement Program** in **Wits Business School** and **Technical Training in Blowmoulding Process** from the **Lawson Mardon Group (UK)**. Moreover, he is a **Certified Instructor/Trainer** and a **Qualified Fire Fighter** and **Ambulance Assistant**.

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.

Learning Design & Customization

This course can be customized to the exact requirements of clients. Haward Technology is so proud of our huge capabilities in tailoring our courses to the training needs of our valued clients.

Virtual Training (If Applicable)

If this course is delivered online as a Virtual Training, the following limitations will be applicable:-

Certificates	Only soft copy certificates will be issued to participants through Haward's Portal. This includes Wallet Card Certificates if applicable
Training Materials	Only soft copy Training Materials (PDF format) will be issued to participant through the Virtual Training Platform
Training Methodology	80% of the program will be theory and 20% will be practical sessions, exercises, case studies, simulators or videos
Training Program	The training will be for 6 hours per day starting at 0800 and ending at 1400
H-STK Smart Training Kit	Not Applicable
Hands-on Practical Workshops	Not Applicable
Site Visit	Not Applicable
Simulators	Only software simulators will be used in the virtual courses. Hardware simulators are not applicable and will not be used in Virtual Training

Course Program

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

Day 1

0730 – 0800	<i>Registration & Coffee</i>
0800 – 0815	<i>Welcome & Introduction</i>
0815 – 0830	PRE-TEST
0830 – 0930	Importance of Visual Quality Inspection <i>Role of Packaging Quality in Customer Satisfaction • Impact of Packaging Defects on Product Integrity • Cost of Poor Packaging Quality • Responsibilities of Operators During Inspection</i>
0930 – 0945	<i>Break</i>
0945 – 1030	Overview of Packaging Operations <i>Packaging Process Flow • Primary, Secondary and Tertiary Packaging • Packaging Quality Checkpoints • Critical Control Points (CCPs)</i>
1030 – 1130	Packaging Materials Used in Operations <i>FFS (Form-Fill-Seal) Bags • Stretch Hood Films • Pallets • Labels, Tapes, and Strapping Materials</i>
1130 – 1215	Principles of Visual Inspection <i>Human Visual Inspection Techniques • Inspection Angles and Lighting • Inspection Timing During Production • Sampling versus 100% Inspection</i>
1215 – 1230	<i>Break</i>
1230 – 1330	Packaging Quality Standards <i>Company Quality Specifications • Customer Quality Expectations • Internal Packaging Standards • Acceptance and Rejection Philosophy</i>

1330 – 1420	Practical Workshop – Packaging Material Familiarization <i>Identification of Good Packaging Samples • Identification of Defective Samples • Packaging Material Comparison • Group Discussion on Quality Differences</i>
1420 – 1430	Recap <i>Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow</i>
1430	<i>Lunch & End of Day One</i>

Day 2

0730 – 0830	FFS Bag Defects <i>Pinholes and Perforations • Seal Defects • Incorrect Dimensions • Printing Defects</i>
0830 – 0930	Stretch Hood Film Defects <i>Tears and Punctures • Uneven Thickness • Wrinkles and Folds • Film Contamination</i>
0930 – 0945	<i>Break</i>
0945 – 1100	Pallet Defects <i>Broken Pallet Boards • Damaged Pallet Blocks • Moisture-Damaged Pallets • Nail Protrusions and Structural Defects</i>
1100 – 1215	Packaging Accessories Defects <i>Label Defects • Barcode Quality Issues • Damaged Strapping • Adhesive Tape Failures</i>
1215 – 1230	<i>Break</i>
1230 – 1330	Storage-Related Packaging Defects <i>UV Damage • Moisture Exposure • Dust Contamination • Improper Handling Damage</i>
1330 – 1420	Practical Workshop – Defect Identification <i>Inspection of Actual Packaging Materials • Defect Classification Exercises • Photograph-Based Defect Identification • Team Inspection Competition</i>
1420 – 1430	Recap <i>Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow</i>
1430	<i>Lunch & End of Day Two</i>

Day 3

0730 – 0830	Filling Quality Defects <i>Incorrect Fill Weight • Overfilled Packages • Underfilled Packages • Product Contamination</i>
0830 – 0930	Sealing Quality Inspection <i>Incomplete Seals • Burnt Seals • Weak Seals • Misaligned Sealing</i>
0930 – 0945	<i>Break</i>
0945 – 1100	Printing & Labeling Defects <i>Incorrect Product Information • Missing Labels • Barcode Readability • Smudged Printing</i>
1100 – 1215	Palletizing Quality Defects <i>Leaning Pallets • Uneven Stacking • Layer Misalignment • Poor Load Distribution</i>

1215 – 1230	<i>Break</i>
1230 – 1330	Stretch Hood Application Defects <i>Loose Film Application • Film Tears After Hooding • Incomplete Pallet Coverage • Excessive Film Stretching</i>
1330 – 1420	Practical Workshop – Production Line Defect Detection <i>Inspection Using Production Photographs • Defect Spotting Exercises • Root Cause Discussions • Corrective Action Recommendations</i>
1420 – 1430	Recap <i>Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow</i>
1430	<i>Lunch & End of Day Three</i>

Day 4

0730 – 0830	Finished Pallet Quality Inspection <i>Overall Pallet Appearance • Pallet Stability Assessment • Package Alignment • Transport Readiness Inspection</i>
0830 – 0930	Acceptance & Rejection Standards <i>Major Defects • Minor Defects • Critical Defects • Customer-Specific Requirements</i>
0930 – 0945	<i>Break</i>
0945 – 1100	Visual Inspection Checklists <i>Operator Inspection Checklist • Supervisor Verification Checklist • Shift Handover Inspection • Final Dispatch Inspection</i>
1100 – 1215	Defect Classification <i>Cosmetic Defects • Functional Defects • Safety Defects • Transportation-Related Defects</i>
1215 – 1230	<i>Break</i>
1230 – 1330	Documentation of Inspection Findings <i>Inspection Reports • Defect Recording • Photographic Evidence • Corrective Action Documentation</i>
1330 – 1420	Practical Workshop – Finished Pallet Evaluation <i>Inspection Using Actual Pallet Photographs • Acceptance/Rejection Decisions • Defect Reporting Exercise • Group Evaluation and Discussion</i>
1420 – 1430	Recap <i>Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow</i>
1430	<i>Lunch & End of Day Four</i>

Day 5

0730 – 0830	Root Cause Analysis of Packaging Defects <i>Material-Related Causes • Machine-Related Causes • Human Factors • Environmental Factors</i>
0830 – 0930	Defect Prevention Techniques <i>Standard Operating Procedures • Equipment Checks • Packaging Material Verification • Preventive Inspection Practices</i>
0930 – 0945	<i>Break</i>

0945 – 1100	Reducing Customer Complaints <i>Common Customer Packaging Complaints • Investigation Techniques • Preventive Improvements • Continuous Monitoring</i>
1100 – 1215	Best Practices for Visual Inspectors <i>Maintaining Inspection Consistency • Effective Communication of Defects • Escalation Procedures • Shift Quality Ownership</i>
1215 – 1230	Break
1230 – 1300	Continuous Improvement in Packaging Quality <i>Quality KPIs • Trend Analysis • Daily Quality Meetings • Lessons Learned and Improvement Actions</i>
1300 – 1345	Comprehensive Practical Assessment <i>Inspection of Mixed Packaging Samples • Defect Identification Test • Acceptance/Rejection Decision Exercise • Individual Competency Assessment and Feedback</i>
1345 – 1400	Course Conclusion <i>Using this Course Overview, the Instructor(s) will Brief Participants about the Course Topics that were Covered During the Course</i>
1400 – 1415	POST-TEST
1415 – 1430	<i>Presentation of Course Certificates</i>
1430	<i>Lunch & End of Course</i>

Expected Learning Outcomes

Upon completion of this course, participants will be able to:

- Perform systematic visual inspections of packaging materials and finished packaged products
- Identify defects in FFS bags, stretch hood films, pallets, labels, strapping and other packaging components
- Detect packing, packaging, sealing, labeling and palletizing defects before product dispatch
- Apply operational acceptance and rejection criteria consistently and confidently.
- Conduct effective finished pallet quality inspections to ensure transport readiness
- Record and communicate inspection findings accurately using standardized checklists and reports
- Investigate common packaging defects and recommend appropriate corrective and preventive actions
- Contribute to reducing packaging-related customer complaints, minimizing rework and improving overall packaging quality performance through consistent operational inspection practices



Practical Sessions

This practical and highly-interactive course includes real-life case studies and exercises:-



Course Coordinator

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