

Casco Automotive Tunisia

— PFE Book **2025–2026**

Driving Power – Full Solution

INTERNSHIP PROGRAM

Industrial & Engineering Excellence



| Agenda



01

Company Overview



02

Automotive Industry & Context



03

PFE Program Overview



04

PFE Topics by Department



05

Application Process



06

Why Choose Casco



07

Contact Information

| Company Overview



- ◆ **Automotive components manufacturer**
Specializing in high-precision parts and systems.
- ◆ **Established in 2004**
Over two decades of industrial excellence in Tunisia.
- ◆ **Supplier to major global OEMs**
Trusted partner for leading automotive brands worldwide.
- ◆ **Global Industrial Network**
Member of Casco group with presence in USA, Europe, and Asia.
- ◆ **Corporate Culture**
Strong focus on quality, teamwork, and continuous improvement.



Certifications & Capabilities



◆ ISO TS 16949 / IATF 16949

Certified Quality Management System for automotive industry.

◆ ISO 14001

International standard for effective Environmental Management Systems.

◆ Manual & Semi-Automated Lines

Flexible production setup adapting to volume and complexity needs.

◆ Core Manufacturing Processes

Expertise in PCBA, stamping, over-molding, and final assembly.

◆ Strategic Industrial Focus

Commitment to Digitalization and Lean Manufacturing principles.



Quality & Technology

Certified Processes

✓ IATF 16949

✓ ISO 14001

⚙️ Assembly

📈 Lean Mfg

| Automotive Industry & Internship Context

◆ High quality and cost pressure

Navigating a competitive global market that demands zero defects and cost efficiency.

◆ Short product life cycles

Adapting to rapid technological evolution and accelerated go-to-market strategies.

◆ Focus on digitalization & traceability

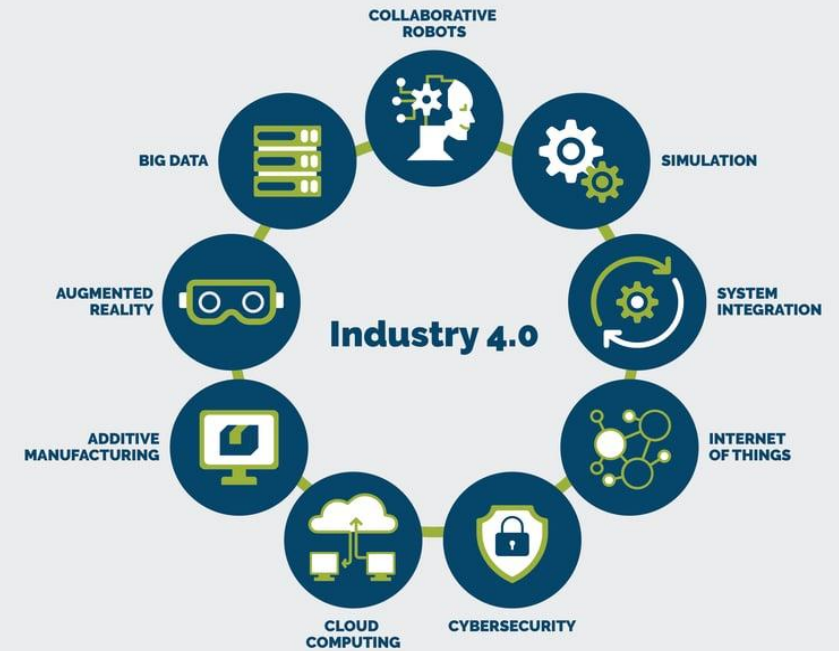
Implementing Industry 4.0 standards for complete process control and data-driven decisions.

◆ Real industrial PFE projects

Bridging academic theory with practical application in a demanding environment.

◆ Casco's Value Proposition

Providing hands-on, value-added engineering topics that solve real operational challenges.



PFE Program Overview

Departments Involved

- ✓ Production
- ✓ Purchasing
- ✓ Quality / HSE
- ✓ Engineering
- ✓ Human Resources
- ✓ Logistics
- ✓ Laboratory

Profiles Targeted



Industrial Engineering

Process optimization, Lean, Manufacturing



Software & Data Engineering

Power BI, Digitalization, Development



Quality & HSE

Standards compliance, Safety, Risk Mgmt



Supply Chain & Logistics

Flow optimization, Stock management

| Production Department – Role

- ◆ **Manage manufacturing and assembly operations**

Overseeing daily floor activities to ensure smooth operational flow.

- ◆ **Ensure productivity, quality, and delivery**

Meeting QCD targets through rigorous monitoring and control.

- ◆ **Support new product launches**

Coordinating industrialization phases for new automotive components.

- ◆ **Apply Lean Manufacturing principles**

Driving continuous improvement and waste reduction strategies.

Operational Excellence



PRODUCTION LINES

Power BI Dashboard

Project Milestones Follow-Up

Context

Lack of consolidated visibility on project progress across different manufacturing lines.



Objectives

- ✓ Automated project tracking system.
- ✓ Real-time KPIs and deviation alerts implementation.



Expected Outcomes

- > Better data-driven decision-making.
- > Improved project governance and transparency.



Skills Required

 Power BI DAX Excel Project Management

Launch Project Dashboard

Ramp-Up / Ramp-Down Monitoring

Context



Complex production & quality monitoring during critical launch phases (Ramp-up) and end-of-life (Ramp-down).

Objectives



- ✓ Monitor readiness and process stability.
- ✓ Track scrap rates, flow efficiency, and key launch KPIs.

Expected Outcomes



- > Secure and smooth industrialization phases.
- > Faster reaction time to quality deviations.

Skills Required



Industrial Eng.



Power BI/Excel



Production Basics

Kanban Workflow

Optimization & Material Flow

Context

Inefficient material flow between operations causing delays and inventory inaccuracies.


Objectives

- ✓ Identify production bottlenecks.
- ✓ Design and implement an efficient Kanban system.

Expected Outcomes

- > Significantly reduced stock levels (WIP).
- > Shorter production lead time.

Skills Required

 Lean Manufacturing

 Problem Solving

 Field Analysis

Purchasing Department – Role



◆ Manage Suppliers & Procurement

Strategic sourcing, evaluation, and management of supplier relationships to ensure compliance with quality standards.

◆ Control Purchasing Costs

Optimizing budgets through negotiation, market analysis, and cost-saving initiatives.

◆ Support Production Needs

Ensuring timely availability of raw materials and components to maintain uninterrupted production flow.

Cost Efficiency



STRATEGIC SOURCING

Tool Life Tracker

Usage & Procurement Optimization

i Context

Limited visibility on tool consumption patterns and replacement cycles.

Objectives

- ✓ Track tool usage and wear systematically.
- ✓ Optimize purchasing frequency based on data.

Expected Outcomes

- > Significant cost reduction on consumables.
- > Improved supplier negotiation capability.

Skills Required

Excel / Power BI

Machining Basics

Purchasing

Purchasing Budget

Investment Tracker

Context



Dispersed purchasing data across systems making consolidation difficult.

Objectives



- ✓ Actual vs planned spend tracking.
- ✓ Budget forecasting and analysis.

Expected Outcomes



- > Improved financial control.
- > Enhanced visibility on investments.

Skills Required



Finance



Procurement



Excel / Power BI

| Quality & HSE Department – Role



◆ Ensure compliance with standards

Rigorous adherence to automotive quality norms (IATF 16949), ISO 9001, and specific customer requirements.

◆ Improve safety and environmental performance

Fostering a zero-accident culture and sustainable manufacturing practices through ISO 14001 and ISO 45001 frameworks.

◆ Drive continuous improvement

Leading root cause analysis, implementing preventive measures, and optimizing processes to reduce waste and defects.

Excellence



QUALITY ASSURANCE & SAFETY

Quality & HSE Projects Overview



◆ ISO Systems

Implementation and maintenance of integrated management standards (IATF 16949, ISO 14001).

◆ Risk Management

Proactive risk analysis methodologies including FMEA and SWOT for robust industrial processes.

◆ Digital Quality Tools

Modernizing quality assurance through digitalization, real-time data tracking, and smart reporting.

◆ Safety & Environmental Performance

Driving a zero-accident culture, ergonomic improvements, and sustainable waste management.

PFE Topics



QUALITY ASSURANCE / HSE STANDARDS

| Quality Projects (Examples)

- ◆ **Lessons Learned Cards digital library**
Digitalizing knowledge management to prevent recurrence.
- ◆ **ISO 50001 Energy Management**
Implementation of energy efficiency standards and monitoring.
- ◆ **ISO 17025 Laboratory Compliance**
Ensuring technical competence and valid testing results.
- ◆ **ISO 27001 Information Security**
Strengthening data protection and information assets security.
- ◆ **Risk Analysis (ISO 45001 & 31001)**
Integrated risk management for occupational health and safety.

PFE 2025-2026



QUALITY ASSURANCE

Standards & Compliance

HSE Digital & Analytical Projects

◆ Ergonomic workstation studies

Digital simulation and assessment of operator posture to prevent MSDs.

◆ Workplace accident analysis (Data & NLP)

Leveraging Natural Language Processing for deep incident root cause analysis.

◆ Mobile safety reporting app

Development of a real-time hazard identification and tracking tool.

◆ Climate risk analysis (ISO 14090/14091)

Strategic framework for climate adaptation and long-term resilience.

◆ Waste & chemical management platforms

Digitalizing environmental tracking and compliance workflows.

HSE 4.0



DIGITAL SAFETY



Engineering Department – Role



◆ Line design and optimization

Creating efficient production layouts, balancing workflows, and optimizing manufacturing processes.

◆ Industrial project management

Leading technical implementation from concept to industrialization and mass production.

◆ Digital tools development

Innovating with software solutions to enhance process control, data visibility, and automation.

Process & Innovation



ENGINEERING & DESIGN

Engineering Core Projects

◆ Production line balancing (VW Line)

Optimization of workload distribution across stations to minimize idle time and maximize throughput for the Volkswagen production line.

◆ PCBA common operations optimization

Standardization and efficiency improvement of shared processes in Printed Circuit Board Assembly across different product lines.

◆ MTM-based cycle time tools

Development and implementation of Methods-Time Measurement tools to scientifically analyze and reduce standard cycle times.



Process Optimization

Efficiency • Standardization • Analysis

| Digital Engineering Platforms

- ◆ **IC Price Management Platform**

Advanced costing and pricing strategy tools.

- ◆ **DMPP & DP Management Platforms**

Digital manufacturing process planning systems.

- ◆ **Industrial Project Management**

Centralized platform for project tracking and governance.

- ◆ **Digitalization of Production Docs**

Paperless shop floor documentation and reporting.

- ◆ **MTM Calculation Platform**

Standardized time measurement and analysis tools.

Industry 4.0



SOFTWARE SOLUTIONS

Human Resources Department – Role

◆ Talent Integration

Streamlining recruitment processes and ensuring smooth onboarding for new team members to foster immediate engagement.

◆ Skills Development

Implementing comprehensive training programs and competency matrices to drive professional growth and versatility.

◆ Workforce Planning

Aligning human capital strategies with production needs and long-term organizational goals.

HR Excellence



PEOPLE & CULTURE

Digital Onboarding Platform

Streamlining the new hire journey



Objectives



Centralized Process

Consolidate all onboarding documents, tasks, and schedules into a single digital interface.



Automated Follow-up

Implement triggers for reminders and progress tracking for both HR and new employees.

★ STRATEGIC VALUE



Better Employee Experience

Creating a welcoming, organized, and engaging first impression to improve retention and accelerate integration.

Competency Matrix Platform

Digitalizing skills management and development



Objectives



Skills Evaluation

Assess current employee competencies against job requirements to identify gaps.



Training Planning

Create targeted development plans based on data-driven skill gap analysis.

★ STRATEGIC VALUE



Strategic Workforce Development

Ensuring the organization has the right skills in the right place to meet future challenges.

| Logistics Department – Role

◆ Material flow management

Orchestrating the efficient movement of raw materials and finished goods through the plant.

◆ Inventory optimization

Balancing stock levels to minimize holding costs while ensuring production continuity.

◆ Supply chain performance

Monitoring key performance indicators (KPIs) to ensure timely delivery and supplier reliability.

Supply Chain



LOGISTICS / WAREHOUSE

VSM & Stock Optimization Project

Objectives



Map Current Logistics Flows

Visualize the end-to-end process to understand current state.



Identify Waste & Bottlenecks

Pinpoint inefficiencies and areas causing delays in the supply chain.



Optimize Stock Levels

Balance inventory to reduce holding costs while ensuring availability.



Tools



VSM

Value Stream Mapping



ABC / XYZ Analysis

Inventory Categorization



Kanban

Lean Scheduling System



Power BI

Data Visualization & Analytics

| Laboratory Department – Role

◆ Testing and validation

Conducting rigorous material analysis, product validation, and reliability testing to ensure all components meet strict performance criteria.

◆ Compliance with international standards

Adhering to global automotive regulations and quality frameworks, including ISO/IEC 17025, to guarantee certified and traceable results.

Quality Assurance



LAB / TESTING EQUIPMENT

ISO/IEC 17025 Accreditation Project



Objectives



Gap analysis



QMS development



Method validation



Outcome



ISO 17025 Accreditation

Formal recognition of the laboratory's technical competence and quality management system.



Ensures international validity of test results.

Application Process

Your journey to joining Casco Automotive Tunisia



CV Submission

Send your resume via our careers email or official university platform.



CV Screening

HR team reviews qualifications against project requirements.



HR Interview

Initial conversation to assess soft skills and cultural fit.



Technical Interview

In-depth assessment with department managers on specific PFE topics.



Note: Successful candidates will receive an official internship offer letter within 1 week of the technical interview.

| Why Choose Casco



◆ Real industrial projects

Work on impactful challenges that directly contribute to production and engineering goals.

◆ Strong technical supervision

Benefit from mentorship by experienced engineers and managers throughout your internship.

◆ Digital & Lean culture

Immerse yourself in a modern environment focused on Industry 4.0 and continuous improvement.

◆ High employability value

Gain practical skills and experience that are highly valued in the automotive job market.

Career Boost



TEAM COLLABORATION / CAREER GROWTH

Contact Information

Get in touch with our team



Email Address

FOR APPLICATIONS & INQUIRIES

oumayma.lassoued@cascoauto.com



Website

VISIT OUR GLOBAL NETWORK

www.cascoauto.com



Location

CASCO AUTOMOTIVE TUNISIA

Bizerte – Menzel Bourguiba
Industrial Zone

JOIN US IN DRIVING THE FUTURE



THANK YOU

Casco Automotive Tunisia

Driving Power – Full Solution

