

# Solar Manufacturing Workforce Development: Jordan Market Analysis

A strategic framework for developing skilled workforce in Middle Eastern solar manufacturing through structured training programs.

Educational analysis of workforce development pathways and operational insights - Source: J.v.G. Technology GmbH.

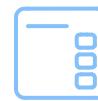




## Strategic analysis for Middle Eastern solar workforce development



Created as part of the PVKnowHow Knowledge Network



Prepared by an experienced European turnkey provider  
European specialists in automated solar module production lines

# Jordan's Solar Manufacturing Context

Jordan's National Energy Strategy establishes renewable energy targets creating substantial workforce requirements for solar manufacturing. The government emphasizes building local industrial capabilities while serving regional GCC export markets. Strategic positioning enables Jordan to become a regional solar manufacturing hub.



## Regional Manufacturing Hub

Strategic location for serving GCC markets with solar module production and export capabilities



## Skills Development Focus

Government and private sector emphasis on technical workforce development for renewable energy manufacturing



## Workforce Foundation

Available technical workforce base provides foundation for specialized solar manufacturing training

# Local Workforce Development Benefits



## Manufacturing Skills

Solar value chain creates employment opportunities across manufacturing, assembly, quality control, and technical operations



## Knowledge Transfer

Technical skill development and industrial capacity building for sustainable manufacturing operations



## Economic Impact

Regional manufacturing capabilities advance industrial development and employment creation objectives

# Training Program Structure

## Technical Skills

- Solar module assembly techniques
- Quality control procedures
- Equipment operation and maintenance

## Operational Skills

- Production line management
- Safety protocols and procedures
- Efficiency optimization methods
- Troubleshooting and problem-solving

# Workforce Development Implementation Challenges

## Skills Gap

- Limited existing technical expertise in solar manufacturing
- Need for specialized training programs
- International quality standards alignment

## Infrastructure Development

- Training facility requirements
- Equipment procurement for hands-on learning
- Certification program development

## Knowledge Transfer

- International expertise acquisition
- Local trainer development
- Continuous learning systems

# International Partnership Requirements

## Technology Transfer

Access to proven manufacturing processes and quality systems from experienced providers

## Training Expertise

Comprehensive technical training programs delivered by international specialists

## Operational Support

Technical assistance during ramp-up and transition to autonomous operation

## Quality Standards

International certification and compliance requirements for regional and global market access



# Training Program Development Framework

1

## Foundation Phase

- Basic manufacturing principles
- Safety procedures and protocols
- Quality control fundamentals

2

## Advanced Technical Training

- Specialized training delivered by an experienced European turnkey provider
- Hands-on equipment operation
- Production optimization techniques

# Training Resource Allocation

## International Provider Contributions

- Technical curriculum development: 40-50% of training investment
- Equipment training and certification
- Ongoing technical support
- Quality systems implementation

## Local Partner Contributions

- Training facility development: 10-20% of investment
- Local workforce recruitment
- Basic skill assessment and preparation
- Regulatory compliance and certification

# Proven Training Methodology

## Structured Curriculum

Standardized training modules and competency assessments based on proven turnkey manufacturing concepts

## Practical Training

Hands-on experience with production equipment and real manufacturing scenarios

## Skills Certification

Comprehensive assessment and certification program ensuring international quality standards

## Continuous Development

Ongoing skill enhancement and knowledge updates for evolving technologies

# Key Project Data

**50**

**Scale**

MW production capacity

**6-8**

**Investment**

USD Million

**9-12**

**Ramp-up**

Months to autonomous operation

**Line Type**

Turnkey / automated production line

**Region**

Jordan (export to GCC)

**Focus**

Workforce development for solar manufacturing

**Source:** PVKnowHow / an experienced European turnkey provider

# Strategic Development Alignment

## Industrial Development

Supporting Jordan's industrial development strategy through renewable energy manufacturing capabilities

## Skills Development

Building local technical expertise for sustainable manufacturing operations and regional competitiveness

## Employment Creation

Direct and indirect job creation through solar manufacturing sector development

## Technology Transfer

Establishing knowledge base for autonomous solar manufacturing operations and export capability

# Implementation Framework Summary

## Workforce Opportunity

Technical workforce base creates foundation for developing specialized solar manufacturing capabilities

## Partnership Model

International technical expertise combined with local workforce development creates sustainable manufacturing capability

## Implementation Timeline

Structured workforce development program enables transition to autonomous operation within 9-12 months

# Source & Authorship

Turnkey Solar Module Production Lines

PVKnowHow Knowledge Network

Website: [www.jvg-thoma.com](http://www.jvg-thoma.com)

Email: [info@jvgthoma.de](mailto:info@jvgthoma.de)

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