



Sustainable Textile Manufacturing

Instructor: [Giovanni Maria Conti](#)

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Starts Dec 2

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5 modules

Gain insight into a topic and learn the fundamentals.

4.3 ★

(38 reviews)

Beginner level

Recommended experience [\(i\)](#)

1 week to complete

at 10 hours a week

Flexible schedule

Learn at your own pace

What you'll learn

- ✓ Acquiring technical knowledge of traditional manufacturing processes
- ✓ Understanding contemporary change towards sustainability
- ✓ Acquiring technical knowledge about sustainable requirements and solutions
- ✓ Understanding of the complexity and multitude of processes and stakeholders along the textile supply chain

Skills you'll gain

Production Process Environmental Social And Corporate Governance (ESG) Supply Chain Management Manufacturing Processes Sustainability Standards
Strategic Sourcing Sustainable Design Prototyping Sustainable Business Sustainable Technologies [View less skills](#)

Details to know

Shareable certificate
Add to your LinkedIn profile

Taught in English
[2 languages available](#)

Assessments

4 assignments

See how employees at top companies are mastering
in-demand skills



The MOOC aims to describe the approach to sustainability in the Italian textile manufacturing sector (for clothing and other sectors) with a specific focus on all steps of the production chain.

Each video focuses on one step of the supply chain (raw material sourcing, spinning, weaving, design, prototyping, production, integration of innovative technologies in the processes) and tells the state of the art on the sector's sustainable approach, possible plans and interventions, as well as the opportunities that companies will have to seize in the immediate future in terms of social and environmental responsibility. The topics are addressed by Politecnico di Milano lecturers and industry professionals as guest speakers.

INTENDED LEARNING OUTCOMES (ILOs)

If you actively participate in this course, at the end you will be able to:

- Acquiring technical knowledge of traditional manufacturing processes
- Acquiring technical knowledge about sustainable requirements and solutions
- Understanding contemporary change towards sustainability
- Understanding of the complexity and multitude of processes and stakeholders along the textile supply chain

ACTIVITIES

Over and above consulting the content, in the form of videos and other web-based resources, you will have the opportunity to discuss course topics and to share ideas with your peers in the Forum of this MOOC.

[Read less](#)

Week 0: Introduction

Module 1 • 1 minute to complete

[Module details ^](#)

What's included

 1 video

[Hide info about module content ^](#)

 1 video • Total 1 minute

Sustainable Textile Manufacturing

- 1 minute

Week 1: Materials

Module 2 • 3 hours to complete

[Module details ^](#)

What's included

 5 videos  2 readings  1 assignment

[Hide info about module content ^](#)

 5 videos • Total 38 minutes

Raw materials

- 6 minutes

New sustainable materials

- 7 minutes

Spinning and Weaving

- 9 minutes

Spinning – Case study Zegna Baruffa Lane Borgosesia

- 9 minutes

Weaving – Case study Vitale Barberis Canonico

- 6 minutes

 2 readings • Total 20 minutes

Activity 1: Text to read

-
- 10 minutes

Activity 2: Article to read

-
- 10 minutes

1 assignment • Total 180 minutes

Quiz - Week 1

-
- 180 minutes

Week 2: Design and Production

[Module details ^](#)

Module 3 • 3 hours to complete

What's included

 3 videos  1 reading  1 assignment

[Hide info about module content ^](#)

3 videos • Total 25 minutes

Design

-
- 9 minutes

Design case study

-
- 8 minutes

Prototyping and production

-
- 8 minutes

1 reading • Total 10 minutes

Activity 1: Chapter to read

-
- 10 minutes

1 assignment • Total 180 minutes

Quiz - Week 2

-
- 180 minutes

Week 3: Integrating innovative technologies

[Module details ^](#)

Module 4 • 3 hours to complete

What's included

 2 videos  1 reading  1 assignment

[Hide info about module content ^](#)

2 videos • Total 10 minutes

Integrating innovative technologies

-
- 5 minutes

Integrating innovative technologies: case study Shima Seiki

-
- 4 minutes

1 reading • Total 10 minutes

Activity 1: Additional video

-

10 minutes

 1 assignment • Total 180 minutes

Quiz - Week 3

•

180 minutes

Week 4: Final Survey

Module 5 • 3 hours to complete

[Module details ^](#)

What's included

 1 assignment

[Hide info about module content ^](#)

 1 assignment • Total 180 minutes

Final Quiz

•

180 minutes

Instructor

Instructor ratings  4.2 ★ (14 ratings)



[Giovanni Maria Conti](#)

Politecnico di Milano

1 Course • 2,936 learners

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"To be able to take courses at my own pace and rhythm has been an amazing experience. I can learn whenever it fits my schedule and mood."



★ 4.3 38 reviews



GA

★ 5 · Reviewed on Jul 18, 2025

A brief but very mind blowing and also full of knowledge

VK

★ 5 · Reviewed on Oct 29, 2025

Excellent course offering deep insights into sustainable textile production and modern eco-friendly manufacturing practices

MH

★ 4 · Reviewed on Aug 28, 2025

Helpful in terms of research and a representation of textile industries and their innovative and sustainable practices.

[View more reviews](#)

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Frequently asked questions

^ When will I have access to the lectures and assignments?

To access the course materials, assignments and to earn a Certificate, you will need to purchase the Certificate experience when you enroll in a course. You can try a Free Trial instead, or apply for Financial Aid. The course may offer 'Full Course, No Certificate' instead. This option lets you see all course materials, submit required assessments, and get a final grade. This also means that you will not be able to purchase a Certificate experience.

^ What will I get if I purchase the Certificate?

When you purchase a Certificate you get access to all course materials, including graded assignments. Upon completing the course, your electronic Certificate will be added to your Accomplishments page - from there, you can print your Certificate or add it to your LinkedIn profile.

^ Is financial aid available?

Yes. In select learning programs, you can apply for financial aid or a scholarship if you can't afford the enrollment fee. If fin aid or scholarship is available for your learning program selection, you'll find a link to apply on the description page.

More questions



[Visit the learner help center](#)

Financial aid available, [learn more](#)

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Digital Marketing	Google Project Management Certificate	Education & Teaching	How Does Cryptocurrency Work?
English Speaking	Google UX Design Certificate	Engineering	How to Highlight Duplicates in Google Sheets
Generative AI (GenAI)	IBM Data Analyst Certificate	Finance	How to Learn Artificial Intelligence
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