1. Qualification title (In the original language)

Créateur de produits technologiques et durables (MS)

2. Translated qualification title (If applicable. This translation has no legal status.)

Designer of technological and sustainable products (MS)

3. Profile of acquired competencies

To carry out, on an ongoing basis, proactive technology monitoring of the societal context (environmental, technological, cultural, social, economic, political, regulatory, etc.) in the target sector, by setting up a team, processes and monitoring tools to identify emerging issues, trends and weak signals, with a view to informing the identification of avenues for the creation of an inclusive and sustainable technological product.
Conduct a state-of-the-art review of the technologies available within one's creative sector or field of activity, drawing on expert consultations, document reviews, observations of professional practices, open innovation or the 'Commons', in order to identify disruptive innovations that will have a technological, sustainable and inclusive impact and reposition one's practice.
Prepare a protocol for an analysis of the environmental and systemic context of the subject under study, drawing on methods and tools from the humanities applied to design, to collect data from the field and real-world usage, guiding the research to identify avenues of investigation for the development of an inclusive and sustainable technological project.
Design the methodologies and indicators for a study analysing the environmental and systemic context of the subject under investigation, in collaboration with sector experts, in order to identify and measure social, economic and environmental issues, and to analyse usage patterns, culture, habits, satisfactions and shortcomings associated with an activity, a sector or a population.
Cross-reference the results of the studies carried out (findings from market intelligence, field research, anthropological observation, etc.) with complementary sources (market research, benchmarks of products comparable to a creative concept in terms of functionality, form, aesthetics and user experience, etc.) , to assess the needs, desires, behaviours, interactions between practices and barriers faced by target groups, in order to identify technological, environmental and inclusivity-related issues.
Assess the impact of the identified issues with a view to making decisions on the positioning of the scope of application for the technological, inclusive and sustainable product.
Develop potential avenues of work and hypotheses for usage scenarios, drawing on the analysis of the data collected and having prioritised expectations, to define the framework for the project to create a technological, sustainable and inclusive product and to guide its development.
Develop product concepts, both individually and collectively, by incorporating identified or projected technical, economic, inclusive and environmental constraints, with a view to developing inclusive and sustainable technological products, product systems or interfaces.

Formulate, in consultation with their creative team, the product's usage scenario, illustrating the future user's experience, in order to visualise and articulate the various dimensions and constraints of the project and produce a document that will enable the working hypotheses to be collectively validated, whilst taking into account issues of diversity, inclusivity and sustainability.

Formalise the selected idea through one or more models, drawing on design technologies and techniques, physical or digital prototypes, and contemporary design tools, to visualise the various solutions, make technological and usability choices, and create test set-ups, whilst always ensuring that the solutions developed address the issues of inclusivity and sustainability.
Explore and test new generative technologies by experimenting with new processes and tools, adopting a critical approach, to assess their potential and, where appropriate, implement technologies that are impactful, transformative or disruptive within the development of an inclusive and sustainable technological product.
Develop, as a team of experts, the solutions that have been evaluated and validated by exploring various technologies and techniques, experimenting with different approaches, and testing various scenarios, in order to finalise the design, uses and services of the inclusive and sustainable technological product.
Conduct product usability tests at every stage of development, using materials, prototypes and usage scenarios with the relevant stakeholders (users, future customers, stakeholders, decision-makers and influencers) under simulated or real-world conditions, taking diversity into account, in order to collectively assess and validate the product's scope, its relevance (environmental, societal, technological), its acceptance and its development processes.
Collectively evaluate the results of testing the product prototypes and their usage scenarios, by carrying out a review and/or facilitating a participatory meeting of the project's stakeholders, to validate, in an inclusive and responsible manner, the product's positioning, the technological choices, environmental and social choices to be prioritised.

Draw up the action plan and reverse schedule for the product development project, in consultation with the relevant departments within their organisation or their client's organisation, whilst ensuring environmental and inclusive requirements are met to produce a roadmap tailored to the available resources.
Formalise the specifications, taking into account uses, contexts and target audiences, in line with the objectives, to coordinate resources and skills
Establish objective criteria and quantitative and qualitative indicators to assess, throughout the development process, the outcomes of the project to create a technological and sustainable product, and to enable adaptation in response to unforeseen events and/or serendipitous discoveries arising from the innovation process.
Support and coordinate the technical implementation of product manufacturing, in collaboration with the production department and CSR and inclusion experts, to ensure the product complies with the originally and collectively agreed specifications.
Assess the results of a project to create a technological, inclusive and sustainable product by monitoring quantitative and qualitative evaluation indicators, and report these to their organisation or client.
Identify and select the human, technical, communication, organisational and financial resources to be mobilised to manage the project to create a technological, inclusive and sustainable product effectively.
Facilitate strategic and creative brainstorming sessions by assembling a creative and diverse team with relevant expertise, involving relevant stakeholders from within one's organisation and/or external parties, to define the objectives of a project to create an inclusive and sustainable technological product, define indicators, and analyse the drivers and constraints of production.
Coordinate a team and harness its skills to develop and support a methodology for rolling out technological, inclusive and sustainable innovation, using an agile project approach and incorporating the paradigms of the circular economy, the Anthropocene and inclusivity.
Collectively manage the various phases of the specifications and the product development project with key stakeholders within their own organisation or their client organisation, by organising meetings and workshops for discussion, consultation and fine-tuning, whilst safeguarding environmental, societal and inclusivity considerations.
Build systematic collaborative groups to ensure the roll-out and long-term viability of the technological, inclusive and sustainable product project by structuring networks of influence and research to drive change.
Facilitate the collective or individual development of the product's promotional strategy, with a view to its dissemination, by defining the necessary skills and resources, the presentation, the visual identity and the promotional pitch highlighting its innovative impact in societal, environmental and inclusive terms.
Coordinate the preparation of a communication roadmap, drafted collectively or individually, to identify and outline the resources to be mobilised and the actions to be taken, whilst taking into account environmental responsibility constraints and the physical and mental diversity of the target audiences.
Determine the communication media and channels according to the target audiences, collaborating with a group of experts in responsible and inclusive communication to identify, tailor and define the content to be produced.
Collectively or individually define an artistic direction, drawing on knowledge of the relevant field (values, semantic and visual codes) and research carried out, whilst ensuring the accessibility of the whole (diversity of channels), to ensure that messages are consistent with the objectives of the technological, inclusive and sustainable product
Support and/or oversee the creation of communication materials tailored to the product's diverse target audiences, designed to promote its specific added value, to ensure consistency with the communication objectives and challenges of the technological, inclusive and sustainable product.
Give an oral presentation on the technological and sustainable product at a meeting, seminar or product promotion event, using promotional materials to highlight its impact and its societal, environmental, technological and inclusive relevance.
Establish a network of stakeholders and experts (in sales, distribution and influencer networks) with a view to championing, developing and promoting a sustainable and inclusive technological product or system.
Identify partner networks that support innovation (scientific, technological, production, management and economic) in order to mobilise resources and expertise to create a new activity within an organisation (entrepreneurship) or from scratch as a start-up for the development of an inclusive and sustainable technological product or system.
Produce tailored promotional materials and a sales pitch to present the inclusive and sustainable technological product to stakeholders and convince them to get involved (financially, politically, technologically, economically) in the project's development, either within an organisation (management, shareholders) or outside an organisation (investors, business angels, publishers, etc.)

4. Range of occupations accessible to the holder of the qualification (If applicable)

Sectors of activity :

These professionals work across all sectors of the economy. In particular, there are roles and responsibilities in the following sectors:
Information and Communication Technologies
Green technologies and renewable energy
Health and medical technologies and devices
Advanced manufacturing industries
High-tech agriculture
Sustainable construction and building, responsible architecture
Eco-friendly fashion and textiles
Food and food technologies
Education and learning technologies
Sustainable supply chains

Types of attainable jobs :

These professionals apply their skills in a wide variety of situations and contexts, and under a range of job titles. The main titles are as follows:
Designer, Project Manager
Artist, Artist-Designer
Artistic Director in Digital Creation or Multimedia Creation
Architect, Creative or Design Project Manager
Creator of technological and sustainable products / technological applications / connected textile and graphic products
Consultant in technological or digital creation
Consultant in digital and environmental transformation
Set designer, digital/multimedia exhibition curator
Digital, artistic or industrial project manager
Entrepreneur

Legal references for business regulations :

none

5. Legal basis of the qualification

Body awarding the certificate

Certifying legal name
ECOLE NAT SUPER CREATION INDUSTRIELLE

Grading scale / Pass requirements

Assessment procedures
A work-based scenario enables the assessment of skill sets: the individual completion of the stages involved in a project to develop a sustainable technological product or device.
The expected deliverables are: conducting a user study to position a sustainable technological product; drafting and monitoring the specifications for a project to create an inclusive and sustainable technological product or device; the development of a technological, inclusive and sustainable product or device, and the preparation of a sales pitch and communication materials for a presentation to a group of professionals
A professional thesis focusing on the research or professional challenges faced by the Designer of technological and sustainable products within a specific professional creative context that has been identified and analysed.
The expected deliverables are: a professional thesis in written form or any other medium deemed appropriate to the project or the candidate's disability.
Description of the procedures for acquiring certification by capitalisation of blocks of skills and/or by equivalence
Qualification is awarded to candidates who have met all of the following conditions:
Have successfully completed the four skill modules comprising the Qualification (the project assignment)
Have produced and presented a professional thesis, taking a comprehensive and cross-disciplinary approach, based on a study of a sector or a practice relating to the creation of a product or technological and sustainable system

Qualification level

National level (Décret n°2019-14 du 8 janvier 2019 relatif au cadre national des certifications professionnelles) : Level 7
European Qualifications Framework (EQF) level : Level 7

Authority providing accreditation / recognition of the qualification

France compétences
6 rue du Général Audran 92400 Courbevoie

Access to the next level of education / training

International agreements on recognition of qualifications

Legal basis

Date of registration decision : 24/09/2025
Registration period : 5
Registration expiry date : 24/09/2030

6. Officially recognised ways of acquiring the qualification

After a course of initial education or training as a pupil or student	No
Apprenticeship	Yes
After a course of continuing education or training	Yes
Professional work-based training	Yes
By individual application	No
Recognition of prior learning	Yes

7. Additional information

Entry requirements (If applicable)

Applications are open to holders of one of the following qualifications:
A graduate engineering qualification conferring a Master degree (programmes assessed by the Commission des titres d'ingénieur, list published in the Official Journal);
A degree from a management school, whether private or consular, conferring a Master's degree (programmes assessed by the CEFDG, list published in the Official Bulletin of the Ministry of Higher Education and Research); A postgraduate degree accredited by the university authorities (National Master's Degree, DEA, DESS, ...) or a professional qualification equivalent to five years of higher education;
A qualification or certificate validating a level equivalent to M1 for candidates with at least three years' professional experience relevant to the programme in question;
A qualification listed in the National Register of Professional Certifications (RNCP) at level 7;
A foreign qualification equivalent to the French qualifications required above.
Exceptional admission criteria
Subject to a maximum of 40 per cent of the intake for the relevant Specialised Master's programme, the following applications are admissible, following a procedure for the validation of prior learning and professional experience (VAPP): applications from individuals who can demonstrate at least five years' professional experience, where the activities carried out are demonstrably linked to the professional skills targeted by the programme.
For up to 30 per cent of the number of students on the relevant Specialised Master's programme, applications are admissible from holders of one of the following qualifications:
A qualification or certificate validating a level equivalent to M1, with no professional experience or with less than three years' professional experience relevant to the programme in question.
A Bachelor's degree (L3) or a qualification registered at level 6 in the RNCP, demonstrating at least three years' professional experience relevant to the programme in question.
The total percentage of exemptions provided for in (a) and (b) above must not exceed 40 per cent.

More information (including a description of the national qualifications system)

https://www.francecompetences.fr

Centre national Europass

https://agence.erasmusplus.fr/programme-erasmus/outils/europass