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1. Introduction

The increasing diversity of learners in modern educational settings demands new approaches to course and program design. Traditional methods that treat learners as a homogenous group often fail to address the wide array of experiences, motivations, and needs that participants bring to the classroom. In this context, the use of Personas has emerged as a strategic tool to design learning environments that are inclusive, personalized, and impactful.

This document offers a comprehensive, step-by-step guide and tutorial to developing Personas, integrating theoretical foundations with practical applications based on the experiences from the Diverse Courses European project. It aims to serve both educational practitioners and project developers seeking to enhance learner-centred design in formal, non-formal, and informal education. The Diverse Courses project was co-funded by the Erasmus+programme and developed between 2023 and 2025 by a consortium of six partner organisations from five European countries—Austria, Greece, Italy, Portugal, and Spain—committed to improving inclusive and flexible training pathways through the use of learner and educator Personas in adult education.

Personas allow for a human-centred approach to instructional design: by personifying representative learner types, educators can better tailor curricula, communication, and support services. Instead of designing for an abstract "average learner," educators design for real, nuanced individuals.

The application of Personas is particularly valuable when working with non-traditional learner groups, such as adults returning to education, migrants, people with special needs, and those affected by socio-economic vulnerabilities. In such contexts, personalized learning paths significantly improve engagement and outcomes.

This tutorial is designed as a practical, step-by-step guide for educators, instructional designers, and project developers. To use it effectively, we recommend starting with an understanding of the theoretical foundations in Chapter 2, then following the sequential development process from Chapter 4 through Chapter 8. Each chapter provides tools, examples, and reflections to support implementation. Prior knowledge of basic qualitative and quantitative research methods can be helpful but is not required. Whether you are building your first Persona or refining an existing set, you can adapt each step to your specific context.



2. Theoretical Foundations of Personas

Understanding the theoretical foundations of Personas is essential to applying them meaningfully in educational design. This chapter explores the historical development of the concept, its adaptation across different sectors, and the core principles that underpin effective Persona creation. By tracing these origins, we can better appreciate how Personas support human-centered, empathetic approaches to learning environments.

2.1 The Origins of Personas

The concept of Personas originates from the field of User-Centred Design (UCD) and was formally introduced by Alan Cooper in his 1999 book *The Inmates Are Running the Asylum* (for full references see the integrated bibliography in chapter 10 of this tutorial).

Cooper, a pioneer in software development, realized that development teams often designed products for an "average user" who, in reality, did not exist. To solve this, he introduced Personas: detailed, fictional characters built from real user data to represent different user types.

Personas enabled designers to empathize with end-users, focusing on goals, behaviours, and pain points rather than abstract statistics.

Quickly, this method spread beyond IT: marketing, service design, and eventually education embraced Personas as tools to humanize and customize design processes.

The movement from "designing for all" to "designing for someone" marked a radical improvement in user satisfaction and engagement — a principle that applies equally well to learning environments.

2.2 Definition and Purpose

A Persona is a semi-fictional character that embodies the key characteristics, goals, behaviours, and challenges of a segment of users or learners.

In education, Personas offer a means to understand students not as a monolithic group but as individuals with diverse experiences, needs, goals, and obstacles. Through the creation of well-developed Personas, educators can:

- Personalize learning experiences,
- Anticipate barriers to learning,
- Design interventions that are empathetic and effective.

The ultimate purpose of creating Personas is to shift the focus from contentcentred to learner-centred design, ensuring that every learning experience is aligned with the realities of its audience.

This humanization helps instructors move beyond standard demographic categories (age, gender, nationality, class, ethnicity, sexual orientation, disability, religion, etc.) and understand deeper factors that influence learning outcomes, such as:



- Digital literacy
- Work-family balance
- Emotional barriers
- Aspirational goals

In the Diverse Courses project, all partners confirmed that starting with real data and shaping it into vivid learner Personas greatly enhanced the design of more inclusive and responsive courses.

Case Example - Diverse Courses:

At Cramars, the Italian partner organisation within the Diverse Courses consortium, Personas created for adult re-skilling programs included narrative details about previous employment struggles, digital tool anxiety, and aspirations for stable work. These insights allowed trainers to design onboarding sessions specifically addressing learners' fears about technology.

2.3 Core Elements of a Persona

An effective educational Persona typically includes:

- Demographic Profile: age range, gender, cultural background, family status, Nationality/migration background.
- Educational and Professional Background: prior learning, job experience, Self-assessed learning confidence.
- Motivations: personal (self-fulfilment, hobby) and professional (career advancement, requalification) goals related to education.
- Barriers and Challenges: logistical (time availability), technological (access to devices and internet), emotional, or social difficulties, learning difficulties (e.g., dyslexia, low language proficiency).
- Learning Preferences: styles (visual, auditory, kinaesthetic), pace, collaboration vs. individual work, online vs. face-to-face learning, handson activities vs. theoretical studies.
- Technological Readiness: comfort with digital tools, access to technology.
- Emotional Aspects: self-efficacy, typical fears and frustrations in the learning environment.
- Personal Story: a short narrative capturing the Persona's journey.



2.4 Types of Educational Personas

Depending on the focus and context, different types of Personas may be developed:

- Learner Personas: Represent the profiles of students or participants. (e.g., an adult learner seeking digital upskilling)
- Educator Personas: Represent the profiles of teachers, trainers, or facilitators. (e.g., a tech-savvy trainer adapting new methodologies)
- Stakeholder Personas: Represent individuals influencing the learning process, such as employers or community leaders.

Each type serves a specific function in designing learner-centered strategies, support systems, and broader educational policies.

Real Application in Diverse Courses:

DAFNIKEK, the Greek partner institution within the Diverse Courses consortium, working with Second Chance Schools, developed both Learner Personas (e.g., "Maria, 45, migrant woman balancing job seeking and family obligations") and Educator Personas ("Nikos, 32, adult educator seeking innovative methods for mixed-ability classes") to design dual support interventions.

2.5 Importance of Personas in Educational Design Personas support:

- Better Course Design: ensuring that content delivery methods match learner needs.
- Targeted Support: identifying learners who might need extra help before problems arise.
- Empathetic Communication: speaking the language of learners' experiences.
- Retention and Engagement: learners are more likely to stay engaged when they feel seen and understood.

According to research by Goodwin (2009) and others, contextual, realistic Personas result in more effective, engaging, and equitable educational programs. Building Personas is both an art and a science.

It requires accurate data collection, creative narrative development, and continuous validation.

Modern educational research increasingly stresses that Personas should be dynamic, not static.

Learners evolve during the educational journey: motivations can shift, barriers can emerge or resolve, technological competencies can improve.

Thus, Personas in education must be seen as living documents, regularly updated through:



- Mid-course feedback loops
- Learner self-assessment
- **Educator observations**

This dynamic approach was adopted in the Diverse Courses project, where some partners (like the Austrian partner institution FHJ and one of the two Portuguese partner institutions EPATV) revised their Personas, the mid-program was based on changes detected in learner engagement and performance.



3. Defining the Training Context

Before developing accurate Personas, it is critical to understand the environment in which learners operate.

This chapter examines the importance of mapping social, technological, institutional, and motivational factors that shape the learner experience, offering a structured framework for context analysis.

3.1 Why Context Matters

Defining the training context is the critical foundation for the entire Personas creation process.

According to design theorists like Don Norman (1988) and Kim Goodwin (2009), understanding environmental, social, technological, and institutional factors is essential to creating effective, human-centered solutions.

In education, the context determines:

- Which learner characteristics are most important.
- What external barriers may affect success.
- How learning objectives should be prioritized.

Without context, Personas risk being disconnected from the realities learners face. In practical adult education, the context of learning is often determined by the institution offering a training course or by the content and topic of the respective course offered.

3.2 A Framework for Context Analysis

To analyse the training context effectively, educators and designers should collect information on:

- Target Group Characteristics: demographics, education levels, employment status, language skills.
- Environmental Factors: technology access, geographic challenges, social support.
- Institutional Constraints: attendance rules, funding mechanisms, program certification requirements.
- Learner Motivations: career goals, self-fulfilment aspirations, prior educational experiences.

A practical tool is the "Context Canvas", a visual mapping tool adapted from business model innovation, which organizes key context factors to guide data collection and Persona design.



3.3 Practical Applications in the Diverse Courses Project

Each partner conducted a customized context analysis:

- Atlântica (Portugal) mapped needs for blended learning among working adults.
- DAFNIKEK (Greece) emphasized barriers faced by migrants and lowincome groups.
- **EPATV** (Portugal) focused on learners balancing work and study.
- FDO (Spain) adapted training for youths with variable digital literacy.
- **FHJ** (Austria) integrated environmental awareness into English courses.
- Cramars (Italy) combined formal registration data with digital storytelling for richer insights.

These analyses allowed each organization to create Personas highly tailored to their specific contexts, increasing course relevance and learner engagement.

3.4 Key Lessons Learned

The project showed that:

- Thorough early context analysis prevents major design mistakes.
- Dynamic updates to context understanding help courses stay relevant during delivery.
- Involving frontline educators and community actors enriches context analysis with on-the-ground realities.

In conclusion, defining the training context is not a mere preliminary step: it is a core design activity that directly shapes the success of the Personas and, ultimately, of the entire educational intervention.



4. Collecting Data for Personas

Effective Persona development depends on the quality and richness of the data collected.

This chapter outlines the main types of data to gather, the methods to employ, and practical strategies to capture the full complexity of learners' profiles in an educational setting.

4.1 The Importance of Data in Persona Development

Collecting accurate and meaningful data on learners, educators or stakeholders is the cornerstone of developing effective Personas. Without a solid empirical foundation, Personas risk becoming vague stereotypes rather than credible and actionable tools. In educational contexts, where the diversity of learner backgrounds, motivations, and challenges is particularly significant, careful data collection is not just helpful—it is essential.

Educational research stresses the importance of grounding instructional design in empirical evidence. Authors like Michael Quinn Patton (2002) and John W. Creswell (2014) advocate for mixed methods approaches, combining the quantitative rigor of structured data with the qualitative richness of narrative accounts.

When applied to Persona development, this ensures that Personas are both statistically representative and deeply human.

Collecting data, therefore, is not a bureaucratic preliminary step, but an act of listening: listening to who the learners are, what they hope for, what they fear, and what obstacles they must overcome.

4.2 Types of Data to Collect

To construct a Persona that is both realistic and useful, it is necessary to collect a broad range of data types. These can be organized into several thematic areas:

- Demographic Information
 Basic variables such as age, gender, nationality, and family situation help situate learners within broad socio-cultural frameworks.
- Educational and Professional Background
 Understanding prior education and employment experience provides insights into skills, gaps, and confidence levels.
- Motivations and Learning Goals
 What drives the learner? Is it professional advancement, personal
 fulfillment, a societal obligation, or a mix of factors?
- Barriers and Constraints
 Learners often face structural or personal barriers: lack of technology access, limited free time, language difficulties, or even fear of returning to education.



- Learning Preferences and Styles
 Some learners thrive in group discussions; others prefer self-paced online modules. Knowing these preferences helps personalize educational pathways.
- Digital Competence and Access
 Especially in hybrid and online learning environments, learners' familiarity and comfort with technology are critical variables.
- Emotional and Psychological Aspects
 Self-efficacy, resilience, fear of failure, and openness to new experiences can profoundly shape learning behaviours.

Collecting this multi-dimensional information creates Personas that reflect the complexity of real human beings, not flat, cartoonish figures.

4.3 Methods of Data Collection

The choice of method depends on the educational context, the resources available, and the characteristics of the learner group. Broadly, methods fall into three categories:

Quantitative Methods

Structured surveys and questionnaires enable the collection of standardized, comparable data across a large group. Typical instruments include:

- Demographic questionnaires
- Self-assessment scales (e.g., digital literacy level)
- Motivation inventories

Quantitative data allow educators to identify macro-patterns: for instance, that 70% of learners have limited access to reliable internet or that 60% are motivated by career advancement.

However, numbers alone do not tell stories. They need to be complemented by qualitative insights.

Qualitative Methods

Qualitative data reveal the deeper nuances of learner experiences. They are collected through:

- Semi-structured interviews
- Focus groups
- Open-ended questionnaires
- Personal narratives and storytelling



These methods uncover rich, layered information about fears, aspirations, and personal challenges that standardized surveys cannot capture.

Mixed-Methods Approaches

The best results typically come from **combining** quantitative and qualitative methods.

An initial survey might segment learners by demographics and basic motivation levels, while follow-up interviews explore their deeper hopes and anxieties. Mixed methods approach allow the researcher to triangulate data, enhancing both the reliability and the depth of the Personas.

4.4 Practical Experiences from the Diverse Courses Project

In the Diverse Courses project, each partner adapted data collection methods to their specific educational setting:

- Atlântica (Portugal) deployed a mixed-method strategy, combining online surveys with open text fields and follow-up interviews to delve deeper into learners' technological competencies and career goals.
- **DAFNIKEK (Greece)**, working mainly with vulnerable groups, favored informal discussions and observation, capturing data during the first training sessions and supplementing it with administrative records.
- **EPATV** (**Portugal**) integrated structured surveys into the enrollment process, then conducted "World Café" sessions—informal group discussions where learners could talk openly about their educational aspirations and barriers.
- **FDO** (**Spain**) concentrated on online surveys focused on learning preferences and digital access, recognizing the centrality of technology in their vocational training programs.
- **FHJ** (Austria) combined an attitude survey on English learning with qualitative interviews on environmental consciousness, acknowledging that both cognitive and emotional dimensions affect engagement.
- **Cramars (Italy)** innovatively mixed mandatory administrative data with ProfilPASS digital self-presentations, allowing learners to express themselves creatively through PowerPoint presentations, videos, or storytelling slideshows.

These diverse experiences demonstrate that there is no one-size-fits-all method: the key is choosing approaches that respect the learners' realities and maximize their authentic participation.



4.5 Lessons Learned

Several important lessons emerged from these practical experiences gathered in the project:

- Open-ended data collection (like self-presentations) can reveal hidden challenges and strengths that structured surveys miss.
- Diversify data sources: Combining structured data and personal narratives creates richer, more reliable Personas.
- Use storytelling carefully: Allowing learners to tell their stories opens windows into hidden motivations and challenges.
- Combining different methods offers a more complete learner picture than relying on a single tool.
- Early involvement of learners in the data collection process increases trust and engagement, making it more likely that they will share authentic information.
- Integrate data collection into the learning process: When surveys and interviews are perceived as part of the course experience, not external evaluations, learners engage more openly.
- Adapt to the learners' comfort levels: Not all learners are comfortable with interviews; offering alternatives like anonymous written responses can enhance authenticity.
- Flexibility is crucial: different courses, target groups, and contexts require tailored data collection strategies.

Ultimately, the quality of the Personas created depends almost entirely on the quality of the listening to learners during the data collection phase.



5. Organizing and Clustering Data

Once collected, raw data must be structured into coherent patterns to enable the creation of realistic Personas.

This chapter discusses best practices for organizing, clustering, and interpreting data to reveal meaningful learner archetypes that accurately represent the diversity within a course or program.

5.1 From Raw Data to Structured Insights

Once data about learners has been collected, the next essential step is its organization and analysis.

Raw data, even when rich and abundant, does not automatically lead to useful insights. Without structured interpretation, important patterns can remain hidden, and the risk of building irrelevant or superficial Personas increases dramatically. Organizing and clustering data means transforming isolated data points into coherent groups, identifying similarities and differences among learners.

This process is akin to the analytical phase in qualitative research, where coding and categorization transform interviews or field notes into meaningful themes (Creswell, 2014).

In Persona development, clustering helps define distinct learner types, ensuring that the final profiles reflect actual patterns observed in the educational environment, rather than preconceived assumptions.

5.2 Principles of Effective Data Organization

Drawing from design thinking practices and educational research, several key principles should guide the organization of learner data:

- Prioritize relevance over completeness: Not every collected data point will be equally useful. Focus on variables that meaningfully differentiate learners in ways that impact learning design.
- Look for patterns, not exceptions: Personas are archetypes, not portraits
 of individuals. Identify recurring behaviours, motivations, and barriers
 rather than outlier cases.
- Balance qualitative richness with quantitative clarity: Use numbers where appropriate (e.g., age distribution) but never lose the human stories that give depth to the clusters.
- Visualize connections: Creating matrices, thematic maps, or mind maps helps to reveal hidden structures in complex data.
- Iterate and refine: Clustering is rarely perfect on the first attempt. Reviewing and revising clusters as understanding deepens is not only acceptable but recommended.



5.3 Methods for Clustering Learner Data

Depending on the quantity and nature of collected data, several methods can be applied to group learners meaningfully:

a) Manual Pattern Recognition

In small to medium datasets, educators and designers can manually identify patterns by:

- Sorting learners into groups based on key variables (e.g., digital literacy, motivation type, barrier severity).
- Using coloured sticky notes, spreadsheets, or digital boards like Miro to group similar profiles.

This method, while low-tech, allows for rich qualitative insights and is particularly effective in educational projects where relational and contextual understanding is crucial.

b) Statistical Clustering Techniques

For larger datasets, statistical methods such as cluster analysis, factor analysis, or correspondence analysis can be used to identify learner groupings based on quantitative similarities.

Although more technical, these methods offer objective support for clustering, especially useful when dealing with hundreds of participants.

However, purely statistical clusters should always be contextually interpreted to avoid generating Personas that are mathematically correct but pedagogically meaningless.

c) Hybrid Approaches

Many successful Persona development projects, including Diverse Courses, have used hybrid approaches:

- Starting with a manual, qualitative grouping can be based on interviews and observations.
- Then refining or validating those groupings through basic quantitative checks (e.g., demographic distributions, motivation ratings) can be usefully applied as well.

This ensures that both the richness of human experience and the reliability of structured data are respected.



5.4 Practical Applications in the Diverse Courses Project

Partners in Diverse Courses implemented a variety of clustering strategies tailored to their contexts:

- Atlântica used Excel spreadsheets to categorize learners initially by age and digital competence, then layered motivational differences to create subgroups.
- **Cramars** employed a more narrative method, analyzing ProfilPASS presentations and identifying repeating life trajectories (e.g., career shifters, returnees to education, migrants rebuilding professional paths).
- DAFNIKEK trusted educator judgment heavily, grouping learners based on direct classroom interactions and observations of engagement levels and learning difficulties.
- FHJ initially used statistical clustering based on English attitude surveys and refined the clusters through qualitative validation with course educators.
- EPATV created simple but effective matrices crossing motivational drivers (career vs. personal growth) with technological competence (high vs. low), resulting in different major learner Personas.
- **FDO** employed an innovative hybrid approach: after collecting detailed learner data via an online survey, they used frequency analysis and iterative grouping to identify meaningful learner clusters. The process was supported by Al-assisted analysis and human refinement.

Each approach was shaped by the size of the learner group, available resources, and cultural context, demonstrating that method flexibility is a key success factor.

5.5 Lessons Learned

Several important insights emerged across the project regarding organizing and clustering data:

- Do not overcomplicate: Even simple groupings based on two or three variables can create highly useful Personas if well selected.
- Validate clusters through discussion: Involving multiple educators in reviewing cluster definitions enriches the accuracy and credibility of the resulting Personas.
- Stay aware of stereotypes: Clustering should reveal patterns, not reinforce biases. Always ask whether groupings genuinely emerge from data or from unconscious assumptions.



 Accept dynamic clustering: Learners change during the course. Clusters, and the Personas derived from them, should be reviewed and possibly updated mid-course.

Ultimately, clustering is the bridge between data collection and the creative act of crafting Personas. When done carefully, it ensures that Personas are not invented abstractions, but faithful distillations of real human diversity.

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6. Creating Personas

Transforming structured data into vivid and actionable Personas requires both methodological rigor and creative narrative skills.

This chapter guides the reader through the steps of constructing authentic learner profiles, ensuring they are grounded in evidence yet sufficiently engaging to drive empathetic course design.

6.1 From Data to Story: The Transition to Personas

Once data has been collected, organized, and clustered, the next step is the creative and strategic construction of Personas.

At this stage, the focus shifts from abstract analysis to storytelling grounded in evidence. The goal is to transform patterns into vivid human portraits, allowing designers, trainers, and educators to design courses and interventions with real people in mind—not with abstractions.

Creating Personas is a process that demands both rigor and imagination.

The rigor lies in staying faithful to the evidence collected: every element of the Persona must be traceable to real data.

The imagination comes in constructing a credible, coherent story around these elements, making the Persona feel alive, empathic, and actionable.

According to Cooper (1999) and later refined by Pruitt & Adlin (2006), good Personas have the power to evoke empathy, guide decisions, and unite design teams around the users' actual needs.

6.2 Essential Components of an Educational Persona

To be effective, each Persona should include several structured components:

- Name and Short Description
 Assigning a real name humanizes the Persona immediately. The short description captures the essence: e.g., "Fatima, 42, returning to education after 20 years."
- Demographic Details
 Age, family situation, cultural background—all the elements that shape daily life.
- Educational and Professional Background
 Past experiences that influence the learner's skills, attitudes, and self-confidence.
- Learning Goals and Motivations
 Why is this person engaging in education now? What do they hope to achieve?



- Barriers and Constraints
 Challenges the Persona faces that could hinder success (time, technology, language, confidence).
- Learning Preferences
 Styles and formats the learner tends to favour.
- Technology Access and Skills
 Crucial especially in hybrid and online learning environments.
- Emotional and Psychological Profile
 How confident, anxious, resilient, curious is this learner?
- Personal Story or Narrative
 A short paragraph that "tells the story" of this learner's journey, making the profile relatable and memorable.

This structure ensures that Personas are both informative and emotionally resonant.

6.3 Techniques for Creating Personas

Several techniques can facilitate the construction of Personas:

a) Narrative Construction

Using storytelling techniques, designers build a brief narrative around the learner's background, motivations, and struggles.

Narratives help the design team internalize the Persona not just as a set of variables, but as a living person.

b) Empathy Mapping

Originally developed by Dave Gray et al. (2010), Empathy Maps help capture what the Persona:

- Thinks
- Feels
- Speaks
- Does

This tool adds psychological depth and highlights possible contradictions (e.g., a learner who says he or she feels confident but behaves anxiously in digital tasks).

c) Visual Representation

Incorporating images, icons, or infographics helps make Personas more engaging and memorable, especially in educational projects involving multidisciplinary teams.

d) Use of Templates



Standardized Persona templates ensure consistency across multiple profiles and simplify comparisons.

Templates typically include fields for all essential components outlined above.

6.4 Practical Experiences from the Diverse Courses Project

Each partner in the Diverse Courses project adopted different but complementary approaches to creating their Personas:

- **Atlântica** created detailed text-based Personas enriched with direct quotes from learners, helping bring authenticity and emotional depth.
- **DAFNIKEK** emphasized storytelling, crafting mini-biographies that captured not only educational challenges but also broader life contexts.
- **EPATV** used visually oriented templates, integrating demographic data with narrative insights, facilitating rapid application by trainers.
- **FDO** focused on pragmatic aspects: Personas explicitly included logistical constraints like work schedules and transportation access.
- **FHJ** merged motivational clustering (environmental activism vs. pragmatic learning) with learning style preferences, creating rich, multi-dimensional Personas.
- **Cramars** uniquely used the learners' self-presentations (via ProfilPASS) as direct material to draft Personas, preserving learners' authentic voices and self-images.

Through these varied methods, all partners succeeded in producing Personas that were grounded, empathetic, and directly usable in course and program design.

6.5 Lessons Learned

Several critical insights emerged from the Persona creation phase:

- Anchoring in real data: Imaginative storytelling must never drift from empirical grounding.
- Balancing specificity and generalization: Personas must be detailed enough to be vivid but broad enough to represent multiple learners.
- Avoiding stereotypes: Every effort must be made to portray complexity rather than relying on simplistic or biased assumptions.
- Updating Personas dynamically: Learner realities change over time; Personas should be living documents revisited periodically.



Ultimately, the creation of Personas is both a creative act and a methodological discipline. When crafted well, Personas act as powerful design tools that keep the human experience at the center of every educational intervention.



7. Validation of Personas

Personas must be tested against real-world feedback to ensure their accuracy and relevance.

This chapter highlights methods for validating Personas through expert reviews, learner feedback, and iterative refinement, safeguarding their effectiveness as design tools.

7.1 The Necessity of Validation

Creating Personas based on collected and organized data is a critical achievement, but the process does not end there. To ensure that Personas are truly credible, relevant, and useful, they must be validated.

Validation is the phase where draft Personas are tested against reality: checked, refined, and confirmed with stakeholders—especially educators, trainers, and, whenever possible, learners themselves.

Without validation, even well-intentioned and data-informed Personas risk drifting into fiction, misrepresenting the groups they are intended to depict.

Educational design theorists, including Pruitt & Adlin (2006) and Mulder (2017), stress that validation increases the trustworthiness and adoption of Personas within learning design teams.

In essence, validation is an act of humility and verification: ensuring that the educational interventions built around Personas are truly grounded in learner realities.

7.2 Methods for Validating Personas

There are multiple techniques for validating Personas, often used in combination to maximize robustness:

a) Expert Review

Educators, counsellors, and staff familiar with the learner population are invited to review the draft Personas.

They assess:

- Are the Personas realistic?
- Are motivations, barriers, and profiles consistent with what is observed in reality?
- Is any important aspect missing?

This peer-review approach benefits from the practical expertise of those closest to learners.



b) Learner Feedback

Whenever possible, direct validation with learners provides powerful confirmation or correction.

Learners can be asked:

- "Do you recognize yourself in any of these profiles?"
- "Which aspects feel right? Which feel wrong?"
- "Is there anything important about your learning experience that these Personas miss?"

Learner validation is particularly valuable for capturing emotional nuances of learners that staff may overlook.

c) Focus Groups

Organizing small discussion groups around draft Personas helps gather collective feedback efficiently.

Participants can discuss, correct, and enrich the profiles collaboratively.

Focus groups also help detect divergent patterns: sometimes what seems a coherent cluster from the designer's perspective is perceived as artificial by learners themselves.

d) Triangulation with Additional Data

Cross-checking Personas against institutional data (e.g., course evaluations, attendance rates, digital access reports) can further validate their alignment with documented learner behaviours.

7.3 Validation in Practice: Diverse Courses Experiences

In the Diverse Courses project, partners engaged in various forms of validation adapted to their contexts:

- **Atlântica** conducted one-on-one interviews with learners, using the draft Personas as a conversational tool to elicit feedback and corrections.
- DAFNIKEK organized informal educator workshops where trainers discussed the draft Personas and suggested refinements based on their classroom experiences.
- EPATV employed an anonymous validation form where learners could indicate, for each Persona, their level of identification and suggest modifications.
- **FDO** cross-validated Personas by analyzing course dropout rates and participation patterns against the assumptions embedded in the draft profiles.



- **FHJ** used validation focus groups, integrating learners' suggestions directly into the final Persona versions, particularly regarding motivational factors and environmental concerns.
- **Cramars** creatively used a peer-review method: Personas created for each course were shared across different training groups, allowing for cross-validation from a wider audience.

These varied approaches underline an important principle: validation methods must fit the educational and cultural context, but validation itself is non-negotiable.



7.4 Challenges in Persona Validation

While vital, validation is not always straightforward. Several common challenges often arise:

Challenge	Practical Solution
Learners reluctant to criticize drafts	Frame feedback as "helping to improve future learners' experience," not as personal criticism.
Time constraints limiting thorough validation	Integrate validation into existing sessions, e.g., first feedback activities during the course.
Educator disagreement on Persona profiles	Use majority agreement as a basis but document dissenting insights for possible future Persona evolution.
Fear of stereotyping emerging during validation	Reaffirm that Personas are archetypes, not labels, and should remain flexible tools.

Addressing these challenges thoughtfully is key to ensuring that validation remains a constructive and learner-centered process.

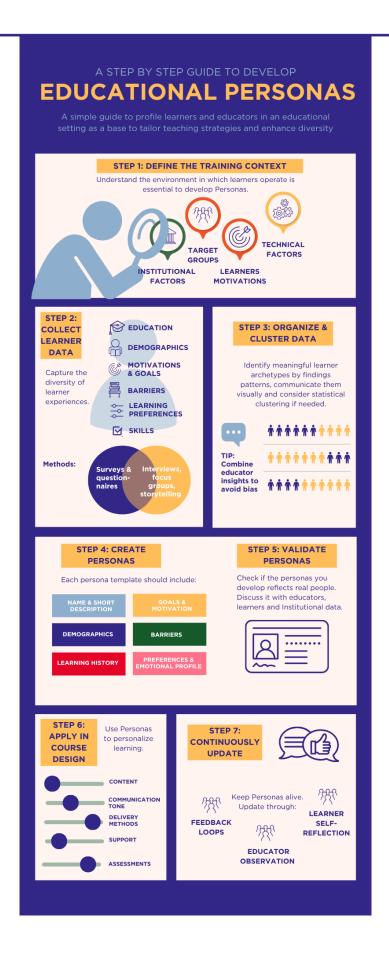
7.5 Lessons Learned

Across the Diverse Courses project, partners identified several key lessons about validation:

- Early involvement builds ownership: Educators who participate in validation feel more connected to the Personas and use them more actively.
- Validation enriches Personas: Even well-built draft Personas can miss important nuances; validation consistently improves them.
- Iterative refinement is normal: It is better to revise Personas based on feedback than to rigidly stick to initial drafts.
- Validation increases practical impact: Personas that learners and educators recognize as real have a much stronger influence on course design decisions.

In conclusion, validating Personas is not an optional luxury but a necessary safeguard that ensures these powerful tools remain true, empathetic, and effective.







8. Application of Personas in Course Design

The true impact of Personas is realized when they are actively applied to educational planning and delivery.

This chapter explores how Personas can inform decisions on content, methods, support services, and assessment, enabling a shift from standardization to personalized learning experiences.

8.1 From Personas to Practical Educational Strategies

The true value of developing Personas lies not only in their creation but in how they are applied to shape real educational practices.

Personas are not ends in themselves; they are tools designed to guide instructional design, communication strategies, learner support services, and assessment approaches.

By keeping Personas at the forefront during course development and delivery, educators can design more personalized, inclusive, and effective learning experiences, responding to the real needs of diverse student populations.

Educational design theorists such as Gagné (1985) and Merrill (2002) underline that learner-centred approaches — where the design revolves around the learner's profile rather than the content itself — produce better engagement, retention, and learning outcomes.

Personas operationalize this principle by providing detailed, empathetic representations of who learners are.

8.2 Key Areas Where Personas Influence Course Design

Personas can impact various aspects of educational planning and delivery:

a) Content Customization

Knowing the backgrounds, goals, and challenges of different learner types allows course designers to:

- Select examples and case studies relevant to the learners' experiences.
- Adjust the difficulty level of content to match entry competencies.
- Incorporate culturally sensitive materials.

For instance, in Diverse Courses, Atlântica adapted case studies in their digital skills course to include real-world workplace scenarios relatable to adult learners balancing jobs and family life.

b) Instructional Methods and Delivery Modes

Different Personas may prefer different learning modalities.

Some learners thrive in self-paced online environments; others need face-to-face support.

By mapping these preferences, courses can be designed with flexible pathways, offering blended models, modular access, and differentiated learning activities.



Case Example: EPATV created dual pathways in some vocational courses — one track focused on hands-on workshops, another on theory-rich online modules — aligned to different learner Personas.

c) Communication and Motivation Strategies

Effective communication speaks directly to the learners' motivations and aspirations. Personas help identify:

- Which motivational appeals are likely to resonate (career advancement, personal fulfilment, community contribution).
- What tone and style should be used (formal, supportive, inspirational).

DAFNIKEK, for example, developed orientation materials that acknowledged the migrant learners' resilience and dreams of social integration, making learners feel recognized and respected from the start.

d) Support Services and Infrastructure

Personas can also highlight needs beyond the curriculum:

- Additional IT support for learners with low digital literacy.
- Flexible scheduling or childcare support for learners balancing education and family.
- Emotional support services for learners with anxiety or low selfconfidence.

FDO used their Personas to advocate for better technical support during online classes, addressing a key barrier for their young vocational students.

e) Assessment and Evaluation

Assessment strategies should be aligned with learner realities. Personas can inform:

- Alternative assessment methods (portfolios, oral exams, project-based work).
- Adjusted pacing and deadline flexibility.
- · Clearer scaffolding for skill progression.

FHJ, recognizing that their environmentally motivated learners thrived on practical engagement, integrated project-based assessments where students designed mini environmental campaigns rather than relying solely on written exams.



8.3 Practical Examples from the Diverse Courses Project

Throughout the Diverse Courses initiative, the application of Personas fundamentally improved course design practices:

- Atlântica tailored onboarding sessions to address specific digital anxiety issues revealed by Personas.
- **DAFNIKEK** redesigned their mentoring program to offer bilingual support for migrant learners.
- **EPATV** embedded modular content to accommodate part-time learners with heavy work schedules.
- **FDO** adjusted course timing to better fit young learners' daily rhythms.
- **FHJ** used motivational drivers from Personas to design dynamic, participatory English lessons around environmental activism.
- **Cramars** created individualized learning paths integrating career counselling, based on Personas detailed professional histories.

These applications demonstrate that Personas are not theoretical exercises but practical tools for improving inclusiveness, relevance, and effectiveness.

8.4 Lessons Learned

Several critical lessons emerged from the use of Personas in course design:

- Personas need to be accessible and visible: Educators are more likely to use Personas if they are presented in a clear, user-friendly format (e.g., visual cards, summary sheets).
- Personas should inform all stages: From outreach and enrolment to assessment and alumni support, Personas provide insights at every phase of the learner's journey.
- Regular reflection is essential: Courses should be evaluated periodically against Personas to ensure that evolving learner needs continue to be met.
- Flexibility remains key: No Persona captures every nuance of an individual learner. Educators must use Personas as guides, not as templates.

In conclusion, applying Personas transforms course design from a generic, onesize-fits-all model to a living, responsive practice centred on human diversity and potential.



9. Challenges Encountered and Solutions

Implementing a Persona-based approach comes with inevitable challenges, from data collection hurdles to risks of stereotyping.

This chapter identifies common obstacles encountered during the process and offers practical solutions to enhance the resilience and impact of Personas in educational projects.

9.1 Why Addressing Challenges Matters

Developing and applying Personas in educational contexts, though highly beneficial, is not without obstacles.

Throughout the Diverse Courses project and supported by broader literature (e.g., Pruitt & Adlin, 2006; Mulder, 2017), it has become clear that anticipating and managing challenges is crucial to the success of any learner-centred design initiative.

Challenges can arise at every phase: from data collection to Persona construction, validation, and practical application.

Rather than seeing them as failures, successful teams view challenges as feedback and signals that adjustments and learning are needed.

Recognizing common pitfalls and exploring tested solutions strengthens both the Personas created and the educational programs they inform.

9.2 Main Challenges in Developing and Using Personas

Several recurring challenges were observed during the Diverse Courses project and are widely documented in research and practice:

a) Risk of Stereotyping

One of the most critical risks is that Personas, if not carefully based on data, may reduce learners to caricatures rather than representing their complexity. Stereotypes can reinforce biases and lead to exclusionary designs.

b) Data Collection Difficulties

Collecting meaningful, high-quality data is often harder than expected because of potential:

- Low survey response rates.
- Learners' discomfort in disclosing personal information.
- Time constraints for in-depth interviews.

c) Over-Complex or Vague Personas

Another common mistake is to create Personas that are either:

- Overly detailed and thus impractical to use, or
- Too vague and thus ineffective as a design guide.

d) Lack of Buy-in from Educators



If educators are not involved in the Persona development process, they may perceive Personas as abstract or irrelevant, resulting in poor integration into course design.

e) Static Personas in a Dynamic Environment

Learner realities can change rapidly (e.g., due to family events, technological upgrades, economic shifts).

Static Personas quickly lose their relevance if not periodically updated.

9.3 Practical Solutions and Strategies

The Diverse Courses project developed and tested several effective strategies to overcome these challenges:

a) Anchoring in Real Data

- Always base Personas strictly on collected qualitative and quantitative evidence.
- Use direct quotes and anecdotes from learners to enrich the profiles with authentic voices.

b) Flexible, Multimodal Data Collection

- Combine multiple data collection methods (surveys, interviews, observations, self-presentations).
- Allow for anonymous contributions where necessary to increase comfort levels.
- Integrate data collection naturally into the educational process to avoid "survey fatigue."

c) Creating Practical, Usable Personas

- Focus on key differentiators relevant to course design.
- Keep Personas concise but rich: around one or two pages per profile, including narrative elements and practical implications for teaching.

d) Building Educator Ownership

- Involve educators early in the data interpretation and Persona drafting phases.
- Organize workshops where draft Personas are discussed, criticized, and improved collectively.
- Show quick wins: demonstrate how Personas can immediately solve real teaching challenges (e.g., group work organization, assignment customization).



e) Treating Personas as Living Documents

- Establish regular review checkpoints (e.g., mid-course evaluations) to update and refine Personas.
- Encourage educators to annotate and adjust Personas as they observe learner evolutions.

Case Insight:

At Cramars, trainers were given editable Persona sheets and asked to add post it notes with observations throughout the course. These notes were used to refine the Personas dynamically, ensuring their ongoing relevance.

9.4 Broader Lessons from Practice and Research

The challenges faced in the Diverse Courses project mirror broader lessons in Persona research:

- Empathy over Efficiency:
 Rushing Persona creation to meet deadlines often results in generic, lifeless profiles. Time invested in rich data collection and validation pays off through more impactful outcomes.
- Adaptation over Perfection:
 No Persona is ever "final." A willingness to iterate, adjust, and evolve is a sign of a healthy learner-centred design culture.
- Collaboration over Isolation:
 Personas should be co-created and co-owned by multidisciplinary teams—including educators, administrators, and sometimes learners themselves—rather than designed by isolated individuals.

Ultimately, challenges are not roadblocks but opportunities to deepen understanding of learners and refine educational strategies. Navigating them with openness and creativity is key to making Personas a truly transformative tool in education.



10. Conclusions and Recommendations for Future Use

The closing chapter reflects on the key lessons learned from integrating Personas into educational design.

It presents strategic recommendations for future applications, emphasizing the importance of empathy, flexibility, and continuous learner-centered innovation.

10.1 Reflecting on the Journey

The process of developing and applying Personas, as demonstrated throughout the Diverse Courses project and grounded in educational and design theory, reveals a profound truth: successful learning design starts with deep human understanding.

Personas are not merely technical tools or bureaucratic exercises.

When properly developed, validated, and applied, they act as bridges between the learners' lived realities and the educational opportunities offered.

They humanize data. They ground empathy. They remind educators, designers, and policymakers that behind every statistic, there is a story — a life — that deserves recognition and support.

Through this guide and Personas tutorial, we have seen how rigorous data collection, thoughtful clustering, careful narrative construction, and iterative validation produce Personas that are vivid, dynamic, and immensely useful.

We have also acknowledged the inevitable challenges that arise and the strategies that can overcome them.

Ultimately, Personas, when genuinely integrated into educational design, elevate inclusivity, personalization, and learner engagement — pillars of modern, effective education.

10.2 Lessons Learned from Diverse Courses

Reflecting on the concrete experiences of the Diverse Courses project, several lessons stand out:

- Personas must be rooted in real, rich data: Fictionalization without evidence undermines credibility and utility.
- Collaboration strengthens Personas: Involving educators, administrators, and learners themselves in the design process creates more authentic and actionable profiles.
- Personas should guide all phases of learning design: From initial outreach to course content, assessment, and learners' engagement, Personas offer insights that can inform each decision.
- Flexibility and iteration are essential: Static Personas quickly lose relevance in dynamic educational environments. Building a culture of periodic review and adaptation is key.



Empathy remains central: Beyond all methods and frameworks, the heart
of Persona work is empathy — the ability to imagine and understand the
experiences, hopes, and fears of others.

10.3 Strategic Recommendations for Future Projects

Based on the combined theoretical foundations and practical experiences, the following recommendations are proposed for anyone wishing to implement Persona-driven educational design:

a) Institutionalize the Persona Process

- Embed Persona development into course design protocols.
- Allocate time and resources for data collection, analysis, and validation.
- Train educational staff in Persona methodologies as part of professional development programs.

b) Diversify Data Sources

- Use a mix of surveys, interviews, focus groups, and observational methods.
- Encourage learner narratives and self-presentations to capture authentic voices
- Update data regularly to reflect evolving learner realities.

c) Design with Personas, Not for Personas

- Keep Personas visible and referenced throughout the design process.
- Let Personas inspire decisions about content, methods, support services, and evaluation, rather than treating them as static background documents.

d) Foster a Culture of Empathy and Adaptation

- Recognize that learners are dynamic individuals; be prepared to adjust designs in response to evolving needs.
- Use validation not as a one-off task, but as an ongoing dialogue with learners and educators.

e) Share Success Stories

- Document and disseminate examples where applying Personas led to improved learner outcomes.
- Celebrate the human impact of human-centered design, motivating teams to sustain these practices.



10.4 Final Thought

Personas, when developed with care and applied with commitment, transform education from a standardized transaction into a personalized experience. They honour the diversity of learners, illuminate invisible barriers, and unlock new possibilities for engagement and success.

In a world where education must become ever more inclusive, adaptive, and empathetic, Personas are not just useful tools — they are essential companions on the journey toward better learning for all.

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11. Integrated Bibliography

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Important Notes:

For Dave Gray and the Empathy Map, the reference is from his 2010 book Gamestorming, even though today it's often cited separately.

The work by Mulder is about educational research and competence-based education — not directly about Personas but aligned with validation and learner-centered approaches.