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Professional English as a Tool for Training Master's Students in Metallurgical Modernization Management

Solovyova Olga

*PhD in Public administration, Associate Professor
Technical University “Metinvest Polytechnic” LLC
Zaporizhzhia, Ukraine
e-mail: ovsolovyova6@gmail.com*

As technical education continues to evolve - especially in disciplines like metallurgy and project management - professional English is no longer a peripheral skill. It's becoming a core instrument in preparing master's students for global academic and business environments. Language access matters. But what really counts is helping students speak with confidence in real professional settings [3].

Teaching English in a technical context means adapting to the logic of the field. That includes working with complex terminology, understanding how technical thinking shapes communication, and aligning with the expectations of professional communities [1]. It's not enough to teach grammar and vocabulary in isolation. Students need to engage cognitively - with English-language concepts in management, engineering, sustainability, and the digital transformation of industry [2].

For students specializing in metallurgy, the following strategies are particularly effective:

- Terminological modeling: building bilingual glossaries, lexical maps, and term equivalence tables (Ukrainian–English) that help students understand how terminology functions in real professional discourse. This gives them a foundation for precision and confidence [4].

- Case-based learning: real-world scenarios - like production modernization or environmental compliance - allow students to apply language critically. They learn to analyze, argue, and explain in English, using the vocabulary of their field.

- Project-based learning: when students prepare presentations, write technical descriptions, or draft business plans in English, they're not just practicing language - they're rehearsing for real communicative tasks. These projects build skills in research, structuring technical texts, and presenting results publicly.

- Intercultural communication scenarios: simulating negotiations, meetings, and public speaking in international contexts. Students learn to adjust their tone, structure, and style based on cultural expectations. This isn't just language training - it's preparation for global teamwork.

Terminological competence is central. It includes several steps:

- Grouping terms by theme - technology, management, ecology, energy.
- Translating and adapting terms with attention to context.
- Using terminology productively in writing and speech.

Using bilingual resources - English–Ukrainian glossaries, terminological databases, and standardized dictionaries - not just for accuracy, but for academic literacy. Students learn to distinguish between a technical description and a marketing pitch, or between regulatory phrasing and analytical commentary. These distinctions matter when writing for different audiences.

In today's mining and metallurgical sectors, which are increasingly embedded in global production and management chains, intercultural competence is essential. Professional English must go beyond terminology - it must help students adapt their communication to the cultural norms of international teams, clients, and partners.

In practice, this can be done through:

- Simulated communicative situations: negotiations, presentations, reporting in multicultural environments
- Stylistic analysis: comparing formal and informal writing styles across countries
- Business etiquette studies: understanding timeframes, argumentation styles, and expectations around directness or diplomacy
- Case reviews: examining real examples of successful or challenged international collaboration

This kind of training prepares students for real-world professional activity. It builds cognitive flexibility, cultural awareness, and the ability to engage in meaningful dialogue.

For master's students in metallurgical modernization management, professional English is more than a tool - it's part of how they shape their professional identity. That's why interdisciplinary, competency-based, and culturally adaptive approaches that meet today's educational standards and support students' integration into the global professional space are so important.

Looking ahead, I believe we have a real opportunity to shape modules that meet industry needs and to build digital tools that let students keep growing, even outside the classroom.

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