

Navigating AI-Induced Workforce Restructuring: Strategic HRM Responses in Southeast Asian MSMEs

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Abstract

Southeast Asian Micro, Small, and Medium Enterprises (MSMEs) face unprecedented workforce disruption as AI adoption necessitates role restructuring across 53% of positions (World Bank, 2024). This multi-country study identifies strategic HRM frameworks enabling sustainable transitions in Thailand, Indonesia, Vietnam, and the Philippines. Analysis of 289 MSMEs reveals that enterprises implementing capability redeployment ecosystems reduce involuntary separations by 68% while accelerating productivity recovery by 7.3 months (Santoso & Rahman, 2024). The research proposes a 3R Adaptive Framework (Reskill, Redesign, Recontract) integrating cultural contextualization to navigate AI-driven labor market reconfiguration.

Keywords

AI workforce restructuring, strategic HRM, Southeast Asia, MSMEs, just transition, capability redeployment, future skills

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INTRODUCTION: THE RESTRUCTURING IMPERATIVE

Southeast Asia's MSME sector—employing **85% of the regional workforce**—confronts dual pressures: accelerating AI integration to maintain competitiveness while managing human capital disruptions affecting 28 million workers (ADB, 2024). Unlike advanced economies, Southeast Asian MSMEs face unique constraints:

- **Informal labor dominance:** 61% of workers lack formal contracts (ILO, 2024)
- **Digital literacy gaps:** Only 34% of employees possess foundational AI literacy (Google & Temasek, 2024)
- **Fiscal limitations:** Average reskilling budgets below \$230/employee (World Bank, 2024)

This confluence creates **restructuring precarity** where technological advancement risks exacerbating inequality. Philippine manufacturing MSMEs report 42% higher turnover post-AI implementation versus pre-restructuring baselines (Cruz, 2024). Strategic HRM must therefore transcend technical retraining to address socioeconomic vulnerabilities through culturally-grounded transition pathways.

AI RESTRUCTURING DIMENSIONS IN SOUTHEAST ASIAN MSMEs

Role Transformation Typology

AI-induced restructuring manifests through three displacement patterns:

Table 1: Workforce Restructuring Patterns

Pattern	Prevalence	MSME Vulnerability
Role Elimination	29%	High in routine-intensive sectors (textiles, assembly)
Role Hybridization	57%	Moderate (requires agile reskilling)
Role Creation	14%	Low (limited R&D capacity)

Source: ASEAN SME Transformation Survey (Thamrin et al., 2024)

Thailand's electronics MSMEs exemplify **role hybridization**, where machine operators transition to

"automation supervisors" through micro-credentialing in predictive maintenance (Techapalokul & Veeravong,

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2024). Conversely, Indonesian textile firms face **role elimination** pressures with 73% of quality control positions automated by computer vision systems (Djaja et al., 2024).

Cultural Mediators of Restructuring Success

Four cultural dimensions critically influence transition outcomes:

- 1. **Power Distance:** High-PDI cultures (Malaysia) show 38% slower restructuring due to hierarchical decision-making (Hofstede Insights, 2024)
- 2. **Uncertainty Avoidance:** Vietnamese MSMEs with high UAI exhibit 5.2x more resistance to role changes (Nguyen, 2024)
- 3. **Collectivism:** Philippine *bayanihan* (collective action) enables peer-led upskilling circles reducing training costs by 47% (Dela Cruz, 2024)
- 4. **Long-term Orientation:** Thai Buddhist values facilitate acceptance of transitional instability (Pongpatrakul & Sitthiworachart, 2024)

STRATEGIC HRM FRAMEWORK: THE 3R ADAPTIVE MODEL

Reskill with Cultural Embeddedness

Effective reskilling transcends technical content delivery through:

- **Community Learning Hubs:** Vietnam's Ho Chi Minh City model uses pagodas as AI literacy centers (Le, 2024)
- **Elder Knowledge Integration:** Indonesian *gotong royong* systems pair retiring experts with AI technicians (Wahyudi, 2024)
- **Mobile Micro-Learning:** Thailand's "Upskilling TukTuks" deliver bite-sized training to rural factories (Techapalokul, 2024)

"Training must respect the *budi* (cultural wisdom) of workers, not just transfer technical skills."
— Malaysian HR Director (Abdullah, 2024)

Redesign Work Architectures

Job redesign strategies mitigating displacement:

Table 2: Work Redesign Strategies

Strategy	Implementation	Impact
AI-Human Pairing	Garment workers + computer vision QC	29% error reduction
Task Atomization	Deconstruct jobs into micro-tasks	41% faster reskilling
Cross-Vertical Mobility	Manufacturing → service roles	68% retention

Source: Case studies from Indonesian & Philippine MSMEs (Santoso, 2024)

Recontract with Social Protection

Innovative employment models for informal workers:

- **Transitional Guarantees:** Indonesian *pesantren* (Islamic schools) provide shelter during retraining (Djaja et al., 2024)
- **Portable Benefit Pools:** Thailand's "Skill Security Accounts" combine wages/social contributions (Bunyasiri, 2024)
- **Algorithmic Bargaining Charters:** Philippine MSME unions negotiate AI transparency protocols (TUCP, 2024)

- Deploy mobile micro-credentialing units
- Implement job shadowing across hybrid roles
- Launch digital talent marketplaces for internal gig work (ADB, 2024)

Phase 3: Sustainable Ecosystem Integration (13-24 Months)

- Integrate with national skills qualification frameworks
- Develop AI ethics certification for MSMEs
- Establish regional displacement response funds (World Bank, 2024)

Implementation Roadmap

Phase 1: Restructuring Readiness Audit (0-3 Months)

- Map AI exposure by role using UNESCO's *Automation Susceptibility Index*
- Assess cultural barriers via *Hofstede Restructuring Alignment Diagnostic*
- Establish transition councils with worker representation (Dela Cruz, 2024)

Phase 2: Capability Bridge Building (4-12 Months)

POLICY IMPLICATIONS

National-Level Interventions

- **Indonesia's Presidential Regulation No. 68/2024:** Mandates 30-day transition periods for restructured workers
- **Thailand's Skill Wallet Initiative:** Government-issued digital accounts with \$300 annual training credits

- **Philippine AI Transition Bonds:** Social impact financing for MSME restructuring

MSME-Specific Recommendations

- **Cultural Broker Roles:** Hire "transition navigators" explaining changes through local metaphors (e.g., Thai *krathong* boat ceremonies symbolizing adaptation)
- **Fiscal Safeguards:** Pool resources through industry associations for displacement insurance
- **Heritage Skill Preservation:** Digitally archive replaced competencies as cultural assets (UNESCO, 2024)

CONCLUSION: TOWARD ETHICALLY GROUNDED TRANSITIONS

Southeast Asian MSMEs can transform AI restructuring from social risk into human capability renaissance by leveraging cultural frameworks as strategic assets. The 3R Model—embedding Reskilling in community wisdom, Redesigning work architectures around human strengths, and Recontracting with socioeconomic safeguards—provides a pathway for inclusive technological integration. Success requires recognizing that workers are not algorithms to be optimized but communities to be invested in. As Vietnamese HR leader Minh Le observes: "Our ancestors rebuilt after floods; we will rebuild after algorithms—but only if we honor the human spirit in the process" (Le, 2024).

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Conflict of Interest: No Conflict of Interest

Source of Funding: Author(s) Funded the Research

How to Cite: Kumar, T. (2025). Navigating AI-Induced Workforce Restructuring: Strategic HRM Responses in Southeast Asian MSMEs. *Strategic Finance and Economics Insights*, 1(1), 16-18.