

Index

A

- Academic development measures, 263–265
- Academic programs: assessment of project and work-based learning in, 234–237, 248–249, 260; critique of, 49–50; journaling in, 156–159; managing work-based learning affiliated with, 247–249; portfolios in, 160; theory-practice dimension and, 64, 65
- Academic research studies, 255–257
- Academy of Management, Organization Development and Change Division, 186
- Accepting, 179
- Accreditation: of action project work, 234–237; of work-based learning, 48, 247–249, 260
- Accreditation of Prior Work Based Learning* (National Health Service), 248–249
- Ackoff, R. L., 16, 87
- Action: learning through, 18; obsession with, 9–11, 132–133
- Action learning, 82–93; action science *versus*, 204–207; active learning *versus*, 83–84; business-driven, 42–43; case example of, 292–295; coaching in, 173; conceptualization of, 85; critical, 61–62; cross-cultural application of, 285; defined, 80, 83, 86; in executive development programs, 27–28, 87–89, 266, 277–279; experiential learning *versus*, 83–84, 85; facilitation in, 186–187, 203–207; facilitator training in, 202; global applications of, 281–282, 291; impact studies on, 256–257; for leadership development, 27–28, 87–89; learning sets (teams) in, 90–92, 103, 141, 229–231; modal delivery platform for, 86; in multinationals, 288; net-works, 42–43; outcomes of, 266, 294; reflection in, 85–86; Southern School of, 287; in strategic teams, 58; *versus* traditional learning, 26–30; in work-based learning, 8, 76–77, 80, 83–92; work-based learning *versus*, 7. *See also* Action projects; Learning teams or sets
- Action Learning Lab, 257
- Action projects, 2, 8; academic-affiliated, 234–238, 247–249; action learning and, 86–89; administration of, 233–238; analysis or planning projects *versus*, 223–224; case examples of, 87–89, 292–295; challenge of, 239–241; cross-cultural use of, 285; designing, 219–241; in executive development programs, 277–278; executive involvement in, 224–228, 239–240; external, 231; facilitation of, 186–187; flexibility in, 224–225; funding of, 233; institution-alization of, 234; location of, 231–233; off-site, 231–233; organization change and, 196; overload of, 230–231; participant- *versus* sponsor-selected, 224–226, 278; participant composition of, 229–231, 232; presentations of, 227–229, 234, 235, 247, 278; project *versus* developmental outcomes of, 186–187; prospectus for, 237–238; reports of, 234–237, 278; scope of, 224, 230–231; selection of, 219–227, 293; strategic value of, 219–220, 223–224, 226, 230–231; subversiveness of, 239–241; team-based, 229–231; time-frame of, 234; topics for, prototypical, 220–221
- Action Reflection Learning (ARL), 257, 297–300

- Action research, 83, 247, 281
 Action science, 111–123; action learning *versus*, 204–207; cross-cultural use of, 284; defined, 111; epistemology of, 7, 112–114; in executive development prototype, 279–280; facilitation in, 203–207; goals of, 111–112, 113; learning teams in, 92; techniques of, 114–123; in work-based learning, 8, 77, 80, 111–123; work-based learning *versus*, 7
 Active learning: action learning *versus*, 83–84; uses and limitations of, 24, 83–84
 Active listening, 143–144, 206
 Activist role, 3, 4
 Actors and Reflectors exercise, 10–11, 132–133
 Adams, H., 9
 Adams, J. D., 9
 Adjournments, 131
 Adler, N. J., 288–289
 Administration: of action projects, 233–238; of learning teams, 191; of work-based learning programs, 243–253
 Adult learning, 6, 248
 Advisory board, 246–247
Affärsvärlden, 39
 Africa, 281
 Albertsons, 292–295
 Allen, T. D., 176
 Alternatives-thinking, 186
 “America’s Most Admired Companies,” 292
 Analysis projects, 223–224
 Anderson, J. R., 68
 Andragogy, 187–188
 Antonacopoulou, E., 51
 Anxiety, 199, 201, 209, 210–211
 Application Consulting Team (ACT), 177
 Applications, journaling of, 158
 Applied science, 76, 77–79
 Appreciative Inquiry, 108
 Apprenticeship: *versus* classroom learning, 12; communities of practice and, 101; masters and, 38–39; updated concept of, 12–13, 41. *See also* Coaching; Developmental relationships
 ARAMARK, Executive Leadership Institute (ELI), 220, 234, 292–295
 Argumentation, 212
 Argyris, C., 35, 72, 111, 113, 114, 119, 136, 155
 Aristotle, 127
 Arnold & Porter, 167
 ASCENT, 234
 Ashton, D., 226
 Asian cultures, 285, 286–287. *See also* specific country headings
 Assessment: of action project work, 234–237; in developmental planning, 169–172; in developmental relationships, 181; in facilitation, 188; peer, 260; 360-degree feedback, 169–172, 181, 252, 260, 283–284, 297, 300; of work-based learning, 248–249, 259–261. *See also* Measurement; Measures
 Assimilation concept, 265
 Association of Chief Police Officers (Great Britain), 231
 Assumptions, challenging: in action science, 111, 113, 114–123, 204–207; in collaborative leadership, 58–59; in communities of practice, 96–98, 279, 280; in critical reflection, 138–139; cultural biases and, 291; in developmental relationships, 183; in executive development programs, 274; facilitation and, 186; through off-site action projects, 232–233; in public reflection, 134, 138–140; in second-order learning, 57; in third-order learning, 15, 16; in work-based learning program, 267–268
 Astra AB, 297
 AstraZeneca, 297–300
 Athletes, 73
 Australia, 291
 Automatic Retailers of America, 292
 Availability bias, 269
 Averages, 261
 Awareness. *See* Self-awareness
- ## B
- Back-home change partner, 175, 176, 277
 Back-loaded instruction, 17
 Bali, 291
 Bandura, A., 52, 264
 Bank of Montreal, 126
 Bateson, G., 1, 11
 Bay of Pigs, 186
 Beaty, L., 146

- Becoming, 13
 Behavioral change: learning and, 14–15;
 participant, 254–255, 257–261; sub-
 stantive measures of, 261–269
 Being: *versus* having, 10; as reflective-
 practice skill, 213–215
 Bell, C. R., 179
 Benchmarking teams, 37–38
 Benchmarks: in coaching, 174; of pre-
 program performance, 260
 Berg, D., 290–291
 Bernard, C., 31
 Best practice teams, 37–38, 290
 Bias, 128, 269, 291
 Black, J. S., 289
 Black-hatting, 153–154
 Blanchard, K. H., 194
 Blind spot, 145
 Bohm, D., 100
 Bolivia, 281
 Bolman, L. G., 133
 Boshyk, Y., 42
 Boston College, Carroll Graduate School
 of Management, 295; Leadership for
 Change Program, 87–89, 151–152,
 235–238
 Boston Consortium for Higher Education,
 The (TBC), 245, 279–280
 Bottom-line effects: of developmental re-
 lationships, 174–175; executives' in-
 terest in, 254; intermediate effects and,
 255; intervening effects and, 254–255;
 of work-based learning, 253–261. *See*
 also Measurement
 Boundaries, engaging across, 261
 Bourner, T., 146
 Boyatzis, R., 43
 Boydell, T., 44
 Bradford University, 262
 Brain processing, 126, 136
 Brainstorming, 146–147, 200
Brave New World (Huxley), 139
 Breakthrough Learning Team, 173
 Bricolage, 5
 Bright, B., 128
 Brinkerhoff, R. O., 20
 Britvic Soft Drinks, 140
 Broughton, J., 76
 Brown, J., 109
 Brown, J. S., 18, 84
 Bruner, J. S., 17
 Buckman Laboratories, 36–37
 Budget, 253
 Bunning, C., 50, 52–53
 Burchett, M., 291
 Bureaucracy, 53, 208, 252
 Burgoyne, J., 44, 256
 Burroughs, S. M., 176
 Business Challenge Groups (BCGs),
 297–300
 Business-driven action learning, 42–43
 Business Manager Leadership action
 learning program, 276
- ### C
- Cable & Wireless College, 226
 Caie, B., 223
 Canada, 290
 Canadian Imperial Bank of Commerce,
 32
 Capitalist organizations, 113
 Capstone, 227
 Career development measures, 263–265
 Carew, D., 194
 Carlson Consulting Enterprise, 19
 Caron, L., 62
 Cascade strategy, 274, 280
 Case study method, 25, 72–73, 83, 139
 Catalogue of feelings, 158
 Catalytic interventions, 190
 Caterpillar, 274
 Cathartic interventions, 190
 Catholic Healthcare Partners, 260–261
 Celemi, 272
 Center for Creative Leadership (CCL),
 175–176, 260–261
 Center for Work and Learning (North-
 eastern University), 52, 264
 Centre for Socio-Eco-Nomic Develop-
 ment (CSEND), 281–282
 Certification. *See* Accreditation
 Champlain College, 105–106
 Change: dynamics of, 196–200; expertise
 and, 38–39; facilitation and, 196–200;
 sensemaking for, 34; stages in adjusting
 to, 198–200. *See also* Behavioral
 change; Contextual complexity and
 change; Organizational change; Partici-
 pant change
 Change, pace of: learning and, 11; organi-
 zational learning and, 32; reflective
 culture and, 134
 Change agents, 196–200

- Charter, team, 192
- Check-ins or check-ups, 174, 181
- Checkland, P., 115
- Chevron, 38
- Chief executive officers (CEOs): attendance of, at project presentations, 227–229; program measurement and, 253–254, 255; reflective practice of, 132–133. *See also* Executive education and development; Executives
- Chief knowledge officer, 35
- China, 281–282, 285, 286
- Choueke, R., 224
- Chuaprapaisilp, A., 286–287
- Chubb Corporation, 234
- Citibank, 276
- Classroom learning, 1–2, 5; apprenticeship *versus*, 12; explicit-tacit knowledge divide and, 68; flaws of, 19–21, 24–30; school-to-work programs and, 48; workplace learning *versus*, 16, 19, 41–42, 251. *See also* Management training; Training, traditional
- Client, defined, 244. *See also* Sponsor
- Clinical practice, 46
- Coaching/mentorship, 17; in action learning, 173; coach/mentor qualities for, 178–180; defined, in work-based learning, 172; in developmental planning, 164; dynamics of, 182–183; in executive development programs, 276–277; in global program, 286; holistic approach to, 183–184; as managerial competency, 173–174; with multiple mentors, 176–177; with multisource feedback, 170–171; peer, 177–178; protégé qualities for, 180; reflection-in-action modeled in, 182; in reflective practice, 172–184; sessions in, 180–184; stretch assignments and, 22; in work-based learning, 2, 7, 297–300. *See also* Developmental relationships
- Coaching style of facilitation, 195
- Coercion, 209
- Cognition: learning and, 14–15, 74–75; public reflection and, 126–127, 128–129
- Cognitive maps, 75
- Cognitive science, 22, 70, 73, 74
- Cognitive task analysis, 99
- Collaborative leadership, 54, 58–59
- Collective leadership, 54, 57–58
- Collective learning types, 69–70, 74, 76–81, 93–123, 277–278. *See also*
- Action learning; Action science; Applied science; Communities of practice; Public reflection
- Collectivist orientation, in learners, 50–51
- Commitment stage of change, 200
- Communities of practice (CoPs), 92–111; conditions for, 93–94; evolution and formation of, 92–94, 95, 98–100; examples of, 94–96, 97–99, 297–300; in executive development, 275, 279–280; expertise in, 81, 100–101; facilitation of, 96; formal mechanisms for, 98–99; global, 282–283; informal mechanisms for, 99–100; inquiry process in, 143; just-in-time learning in, 18; organization-wide, 107–111; progressive learning in, 101–102; scope of, 81; virtual, 102–107; in work-based learning, 8, 76–77, 80, 92–111
- Compassionate leadership, 54, 59–60
- Competence, loss of, 198
- Competencies: categories of, 44–46; generic, 43–44, 45; of learning, 2, 13, 16; measures of effects on, 268–269; meta-, 13, 45–46, 184; multicultural, 287–292; organic, 43–46; of questioning, 28; starting with, in executive development programs, 274, 276; work-based learning and, 43–46, 260–261. *See also* Skills and skill acquisition
- Competency movement, 43–44
- Competitive advantage: learning as, 14; organizational learning as, 32; reframing as, 133
- Comprehensibility criteria, 212
- Concept mapping, 115
- Conceptualization, 71–72, 91, 158
- Concurrent leadership, 54, 55–57
- Conference Model, 108
- Conflict. *See* Team conflict
- Conflict avoidance, 95–196
- Confronting interventions, 190–191
- Contextual analysis, 87–89, 89–90
- Contextual complexity and change: action learning and, 86–87, 89–90; action science and, 117–119; competencies and, 43–46; learning and, 80; public reflection and, 128–129; third-order learning and, 15; traditional developmental experiences and, 23; traditional training and, 20–21. *See also* Change headings
- Contextual disengagement, 137–138

- Continual learning, 6
 Continuous improvement, 253
 Contracts, in developmental relationships, 181
 Contradictions, journaling of, 159
 Control groups, 260
 Conversation, in World Café, 109. *See also* Public reflection
 Cooperative education, 6
 Cooperative inquiry, 210
 Cost-benefit analysis, 253, 256
 Costs: hidden, 269–270; of traditional *versus* work-based learning, 30. *See also* Return on investment (ROI)
 Counterinduction, 91
 Coutu, D. L., 103
 Creativity, 5
 Credential, industry, 248
 Critical approaches: in action science, 113; in facilitation, 211–212; in global programs, 286–287; in measurement, 262–263; reflective practice and, 138–140; in traditional *versus* work-based learning, 30, 68; in work-based learning, 60–62, 74, 75–76
 Critical Experiential Learning Model, 286–287
 Critical incidents, 184
 Critical pedagogy, 61, 139
 Critical-thinking skills, 18, 234
 Cross-cultural miscommunication, 288–289
 Cross-cultural work-based learning: adaptations for, 283–287; for multicultural sensitivity development, 273, 287–292
 Cross-functional staff deployment, 39
 Cross-functional teams, 229
 CSEND, 281–282
 Cultural doping, 139–140
 “Culturally ordered,” defined, 233
 Culture. *See* Cross-cultural work-based learning; Multicultural sensitivity; Organizational culture
 Cunliffe, A. L., 157
 Curiosity, 28–29
 Customer-related measures, 269, 272
 Cynicism, 29
- D**
- DaimlerChrysler, 107
 Data mapping, 116–117, 207
 Database, action-project, 247
 De Bono, E., 118–119, 154
 De Geus, A., 41
 De Loo, I., 232
 Deal, T. E., 133
 Defensiveness: assumptions-challenging and, 274; in group dynamics, 202; in Model I, 114, 136; nondefensiveness and, 142–143, 214, 298; pain avoidance and, 136
 Delegating style of facilitation, 195, 196
 Demonstrating, 17
 Denial, 199
 Depth dimension, of journals, 153
 Derailment, 177
 Developing countries, work-based learning in, 281–287
 Developmental experiences, 7, 21–24, 162
 Developmental planning and plans, 8; activities included in, 164–165; feedback in, 161, 165, 166–167, 168–172; five-question method of, 162–163; flexibility in, 167; learning teams and, 148–150, 168–169; mentors, coaches, and sponsors in, 161, 164, 170–171, 173; personal goals in, 165–168; principles of, 161–162; rationale for, 161; for reflective practice, 161–172; support for, in learning teams, 148–149, 168–169; unfolding of, 164–169
 Developmental psychology, 76
 Developmental relationships, 8; anecdotal evidence on, 174–175; assessment in, 181; coach/mentor qualities for, 178–180; defined, 172; in developmental planning, 164, 170–171, 173; dynamics of, 182–183; in executive development programs, 276–277; holistic approach to, 183–184; mutuality of, 173–174; organizational factors that facilitate, 176–177; protégé qualities for, 180; for reflective practice, 172–184; research evidence on, 175–180; sessions in, 180–184. *See also* Coaching/mentorship
 Dewey, J., 72, 75
 Dialectical dynamic, 262
 Dialogue: in collaborative leadership, 58, 59; in communities of practice, 100; critical, 138–140; in developmental relationships, 172–173; in journals, 153, 155–156, 158; in large-group interventions, 108–109; learning, 2, 125–126,

136–137; Socratic, 114–115. *See also* Public reflection; Reflection

DiBella, A. J., 33

Dickens, C., 1

Dilemmas, journaling of, 159

Dilworth, L., 168

Direction, loss of, 198

Directiveness, in facilitation, 186–191, 194–196, 201–202, 203

Disclosing, as reflective-practice skill, 213, 215–216

Discourse: in action science, 111–114, 122–123, 204–205; emancipatory, 113, 114, 204–205, 212; level of, in facilitation, 204–207; practical and reflective, 112–114, 117. *See also* Public reflection

Dissolution, 16

Distress facilitation, 207–211

Distributed training, 27

Distribution domain, indicators in, 269

Diversity: compassionate leadership and, 59; in learning team membership, 148; public reflection and, 130; in traditional *versus* work-based learning, 29–30; virtual teams and, 102, 104. *See also* Cross-cultural work-based learning; Multicultural sensitivity

Dixon, N. M., 34, 108, 110–111

Documentation: communities of practice *versus*, 100–101; problems of, 101; reading, 182

Domain maps, 159

Donaghue, C., 191–192

Dotlich, D. L., 288

Double-loop learning. *See* Second-order (double-loop) learning

Drama of Leadership, The (Pitcher), 136

Drawings, 189

Duguid, P., 18, 84

E

EBOK (Engineering Book of Knowledge), 107

Eden, C., 115

Educational policy, 46–50

Edwards, R., 103

Egalitarianism, 127

Egan, M., 37

Eichinger, R. W., 167

Electronic assessment, 360-degree, 169

Electronic communication: advantages of, 102; for virtual team learning, 102–107

Electronic knowledge management systems, 106–107

Electronic portfolios, 159, 160–161

Emancipatory approaches, 61, 62, 113, 114, 212, 262, 287

Emotions: in action science, 113–114; catalog of, 158; in change, 199; cultural differences in expression of, 285; dimensions of, at work, 209–210; expression of, 190, 199, 208–211, 285; facilitation and, 192, 203, 207–211; involvement of, in work-based learning, 6; public reflection and, 132, 139.136–137; in team development, 193

Empathy, 143–144, 146

Empiricism. *See* Positivism (logical empiricism); Scientific method

Enderby, J. E., 257

Engagement, 264–265

England, 290

Enrico, R., 183–184

Environmental change. *See* Change; Contextual complexity and change

Epistemology, 49; of action learning, 7, 85; of action science, 7, 112–114; defined, 64; modernist, 66, 68; of work-based learning, 64, 67, 68, 69, 75, 76. *See also* Knowledge; Learning; Theory

Ethnocentrism, 283

Eureka relational database, 107

Evaluation. *See* Assessment; Measurement

Executive education and development: action learning for, 27–28, 87–89, 266, 277–279; action science for, 279–280; communities of practice for, 279–280; just-in-time, 18–19; prototype work-based learning program for, 273–280. *See also* Leadership development

Executive Leadership Institute (ELI), 220, 234, 292–295

Executives: action orientation of, 9–11, 132–133; action-project involvement of, 224–228, 239–240; getting buy-in from, 239–240, 249–253, 253–254, 255, 286; program management and, 249–253; program measurement and, 252, 253–254, 255; public reflection and, 132–133. *See also* Chief executive officers; Sponsor

Experience: action projects and, 222–223; being and, 213–214; developmental, 7, 21–24, 162, 167; engaging knowledge

- from, 264–265; extending knowledge from, 265; journal questions for, 154; learning from, 71, 73–74, 83, 84–85, 167; for learning multicultural sensitivity, 289; originating knowledge from, 265; perceiving *versus* feeling, 113–114; reflection and, 129–132; relationships and, 167
- Experiential education activities, 46–47
- Experiential learning: action learning *versus*, 83–84, 85; limitations of, 24, 83–84; sources of, 167; work-based learning *versus*, 24, 64. *See also* Simulations
- Experimentation, 71, 72–73, 80, 220. *See also* Academic research studies
- Experts and expertise: for action projects, 229; collaborative inquiry and, 54–55; communities of practice and, 81, 100–101; external, 39–40; reducing dependency on, 39, 40–41; role of, in work-based learning, 40–41; use of, for organizational learning, 38–41
- Explicit knowledge, 65, 67–69; in collective-level work-based learning, 77; in developmental relationships, 182; in individual-level work-based learning, 70; and reflection, 74; starting with, in executive development programs, 274, 276
- Exploration phase of change, 200
- Expressive works, 189
- Extending, 179, 265
- External action projects, 231
- External consultants: for action projects, 229; as coaches/mentors, 178
- ## F
- Facade, 145
- Face, loss of, 285
- Facilitation, 185–217; action learning *versus* action science methods of, 203–207; characteristics and methods of, 185–192; of communities of practice, 96; critical, 211–212; definition of, 185; emotions and, 207–211; in global programs, 285; and group development, 192–196; intervention strategies in, 190–191, 194–196; and organization change, 196–200; resistance and, 201–202; styles of, 203–207; technical, 105; of virtual communities of practice, 104–105; in work-based learning, 8, 185–217
- Facilitators: in action learning *versus* action science, 203–207; andragogical skills of, 187–188; of communities of practice, 96; different styles of, 203–207; dimensions managed by, 191–192; directiveness of, 186–191, 194–196, 201–202, 203; as mirrors, 203; neutral stance of, 186; project domain ignorance of, 189; recruitment of, 244, 247; role and activities of, 186–192; situational leadership model applied to, 194–196; skill portfolio for, 212–217; training of, 200–203, 210, 247
- Faculty, 65, 67
- Failure, learning from, 33
- Fals-Borda, O., 287
- False consciousness, 139
- Familiarization session, 180–181
- Farrell, J. D., 192
- Feedback: in action learning, 85, 173, 206; constructive delivery of, 170–171; in developmental planning, 161, 165, 166–167, 168–172; in developmental relationships, 173; executive receptivity to, 134; with Jo-Hari Window, 144–146; in learning teams, 141, 144–146, 166–167; multisource, 169–172; for self-awareness, 127–128, 144–146, 300. *See also* Public reflection; 360-degree feedback
- Ferguson, M., 141
- Ferry, N. M., 129
- Field research, 83–84
- Financial metrics, 252, 254, 272. *See also* Bottom-line effects; Measurement; Measures
- Firewalls, 104
- First Direct, 174–175
- First-order (single-loop) learning: defined, 15–16; strategic myopia and, 232–233; of traditional developmental experiences, 23. *See also* Trial-and-error learning
- Fisher, K., 62
- Flood, A. L., 32
- Focus group methodology, 278
- Force-field analysis, 197–198
- Formal knowledge, 34
- Forming stage of team development, 193, 194, 195
- Fortune Magazine*, 292

Forum Corporation, 257
 Four Seasons Resort, Bali, 291
 Fragmentation-unification dilemma, 137–138
 Frame mode, 214
 FrameworkS strategic process, 58
 Framing and reframing, 3, 214; in action project, 294; in action science, 112, 119–122, 204; categorization of, 133; collective, 130, 214; in global applications, 286–287; on-the-spot, 18; strategic importance of, 133
 France, 290
 Francis, P., 16–17
 Frank, H., 142–143, 266–268
 Freire, P., 139, 287
 Freud, S., 137
 Front-loaded instruction, 17
 Frost, P., 146
 Future Search, 108

G

Galbraith, T., 171
 GAN-Net, 282–283
 Garratt, B., 85
 General Electric (GE), 25; John F. Welch Leadership Center, Crotonville, 278–279
 General Learning Resources, 187
 General Mills, 165
 General Motors (GM), 133
 Generative dialogic change community (GC), 282–283
 Generative dialogic change processes, 282
 George and Harding, 239–240
 Gerber, R., 22
 Giddens, A., 137
 Gifting, 179
 Gill, S. J., 20
 Giroux, H. A., 138–139
 Global Action Networks (GANs), 282–283
 Global Executive Learning Network (GEL), 42–43
 Global Executive Program (Chubb), 234
 Global marketplace, 9–10, 287–288
 Global teams, 288–289, 289–291
 Global work-based learning programs, 273, 280–292, 297–300
 Goals: in developmental planning, 165–168; in developmental relationships, 183; micro-, 183

Goldman Sachs, 25
 Gould, J. M., 33
 Gouldner, A. W., 137
 Grant, R. M., 35
 Gregory, W., 212
 Grocery case example, 295–297
 Group development. *See* Team development
 Group dynamics: developing skills for, in learning teams, 148–151; facilitation and, 192–196; facilitator training in, 202–203; suppression of viewpoints and, 137–138; work-based learning about, 56. *See also* Team development
 Group process techniques, 91, 189–190. *See also* Team development
 Group support systems (GSS), 106
 Groupthink, 186
 Grow-or-die imperative, 9–10
 Growing Our AstraZeneca Leaders (GOAL), 297–300
 Guatemala, 282
 Guided imagery, 158
 Gutierrez, R., 62

H

Habermas, J., 112–113, 127, 212
 Haggerty, D., 105–106
 Hall, E. T., 90
 Hamilton, M. A., 48
 Hamilton, S. F., 48
 Hammer, M., 134
 Hands-on activities, 25
 Hardy, D., 126
 Head-and-heart alignment, 183–184
 Heron, J., 190–191
 Hersey, P., 194
 High-potential managers, job rotation for, 23
 Higher education. *See* Academic programs; Classroom learning; University education, critique of
 Hill, A., 19
 Hillen, P., 103
 Hitachi Foundation, 47
 Hitotsubashi University, 178
 Hogan, C., 157
 Holistic approach: to developmental relationships, 183–184; to learning, 300
 Home Office, United Kingdom, 231
 Honey, P., 3–4, 53

Höpfel, H., 209–210
Huckleberry Finn (Twain), 140
 Huddersfield University, 266
 Human resource frame, 133
 Human resources (HR): competency models and, 44; off-the-shelf programs and, 28; performance improvement and, 253–254
 Humility, 59, 60
 Hutcheson, P. G., 182
 Huxley, A., 139
 Hyde, A., 297, 298

I

If-Then statement, 117
 Imaginative variation, 118–119
 Immelt, J., 279
 Impact studies, 255–257
 Implicit learning, 73–74
 Improvisation, on-the-job, 4–5, 131–132
 In-course change partner, 175, 277
 Inconsistencies, journaling of, 159
 Indian Institute of Management, 178
 Individual level: action projects, 229, 230; in executive development programs, 274–277; learning types, 69, 70–76; measures at, 259–261, 263–265; work-based learning at, 69, 70–76, 229, 230
 Individualistic orientation, 50–51
 Indonesia, 291
 Inference, ladder of, 119–122, 280
 Informative interventions, 190
 Ingram, H., 144
 Inman, P. L., 262–263
 Inner learning cycle, 51–52
 Inquiry: in action science, 77–78; with collaborative leadership, 58–59; collective, 214–215, 216; with collective leadership, 57; cooperative, 210; critical, 75, 138–140; culture of, 54–55; in facilitation, 216–217; in organizational learning, 40–41; reflection and, 74, 75. *See also* Public reflection; Reflection
 INSEAD, 178
 Intangible assets, 272
 Interaction time, in traditional *versus* work-based learning, 29
 Intercultural competence, 290–291. *See also* Multicultural sensitivity
 Interdependence, 249, 290
 Intermediate effects, 255

Internal locus of control, 169–170
 International Association of Facilitators (IAF), 185
 International Management Centre, 223
 International Masters Program in Practicing Management (IMPM), 178
 Interpersonal experiences, 2
 Interpersonal skills, measures of, 265–268
 Interpretation, 118, 212
 Intervening effect, 254–255
 Intervention strategies, 190–191
 Intimate accounts, 158
 Introspection, 127, 136, 152, 181. *See also* Reflection
 Intuition, 69, 74
 Ireland, National Action Learning Program (NALP) in, 42
 Isaacs, B., 214
 Isaacs, D., 109
 Israel, 283

J

J. M. Huber, 16
 Jaffe, D. T., 198
 Janis, I. L., 186
 Janov, J., 97
 Japanese culture, 288–289
 Jensen, M. C., 136
 Jo-Hari Window, 144–146
 Job assignments, developmental, 161
 Job rotation, 21–24
 Johnson, C., 90, 208, 262, 266
 Johnson, M., 10
 Johnson & Johnson, 58
 Joining style of facilitation, 195–196
 Joint enterprise, in communities of practice, 93–94
 Journaling, 7, 8; column approach to, 155–156; in executive development programs, 277; learning with, 156–159; methods and types of, 153, 157–159; questions for, 154; for reflective practice, 141, 152–159; row or sequential approach to, 155; support for, 152; uses of, 153
 Joyce, B., 256
 Just-in-time learning, 16–19, 20, 248

K

Kaiser, H. J., 83
 Katzenbach, J. R., 92

- Keen, E. A., 117–119
 Kelleher, H., 56–57
 Kendall, D., 183–184
 Kerr, S., 25
 Kets de Vries, M.F.R., 202
 Khanya-African Institute for Community Driven Development, 281
 King, P. M., 75
 Kirkpatrick, D. L., 257–258
 Kirkpatrick, M., 219
 Kirkpatrick model of evaluation, 257–258
 Kitchener, K. S., 75
 Kitrell, R., 225
 Kleiner, A., 110
 Knight-Ridder, 25/43 project of, 122–123
 Knowledge: basic, 44; declarative, 68; emancipatory, 113, 114; measuring, 272; objective or empirical, 66, 77–79, 112; and power, 287; practical, 112–113; procedural, 68; view of, 64. *See also* Explicit knowledge; Tacit knowledge
 Knowledge acquisition, 33, 34
 Knowledge concierges, 37
 Knowledge infrastructure, 35
 Knowledge management: electronic, 106–107; organizational learning and, 33–36; steps in, 33–36
 Knowledge management systems (KMS), 106–107
 Knowledge sharing: reflective practice and, 135; as step in knowledge management, 33, 34–35; work-based learning as engine of, 40–43
 Knowledge shepherds, 37
 Knowledge transfer: experts for, 38–39; in organizational learning, 36–38, 256; in work-based learning, impact studies on, 256–257. *See also* Transfer of learning
 Knowledge utilization, 33, 35–36
 Knowledge work, traditional training for, 20
 Knowles, M., 187
 Kolb, D. A., 3, 70
 Krim, R., 184
- L**
- Labich, K., 95–96
 Ladder of inference, 119–122, 280
 Laing, R., 125
 Lancaster School of Health and Postgraduate Medicine, 235
 Lancaster University, 178; research study at, 26, 28, 29
 Language: facilitation and, 215; public reflection and, 131, 215; role of, 5; of theory, 71–72
 Large-group interventions, 107–111
 Larsen, R., 58
 Lateral thinking, 118–119, 153–154
 Leaderful practice, 53–60, 296
 LeaderLab, 175–176, 277
 Leaders as teachers, 274
 Leadership: Four C's of, 54–60; work-based learning and, 53–60
 Leadership and Performance (LEAP) action learning program, 257
 Leadership development: action learning for, 27–28, 87–89; with collaborative leadership, 58–59; with collective leadership, 56–57; with compassionate leadership, 59–60; with concurrent leadership, 55–56; facilitation of, 188–189; situational model of, 194–196. *See also* Executive education
 Leadership Effectiveness Survey, 278
 Leadership for Change Program (Boston College), 87–89, 151–152, 235–238
 Leadership in International Management, Ltd. (LIM), 131, 257, 297–300
 Leahy, F., 273
 Learners: passivity of, 25; predispositions of, to work-based learning, 50–52
 Learning: behavioral change and, 14–15; collective types of, 69–70, 74, 76–81, 93–123; in communities of practice, 101–102; critical approaches to, 60–62, 262; emotions and, 207–211; implicit, 73–74; individual types of, 69, 70–76; informal, 41–42; journaling for, 156–159; just-in-time, 16–19, 20, 248; leaderful practice and, 57–60; levels of, 15–16, 126; metacompetence of, 13; through metaphors, 112–113; new, 8, 11–19; outcomes for practice-based, 264–265; and pace of change, 11; pain-avoidance model *versus*, 136; personal goals for, 165–168; resistance to, 24–26, 29, 51, 201–202; of tacit *versus* explicit knowledge, 68–69, 70, 182, 274, 276, 300; theory-practice dimension of, 63–67, 70, 77, 80; traditional, 11, 19–26, 68, 139; transformative, 76; as a way of being, 5–6. *See also* Classroom learning; Organizational learn-

- ing; Transfer of learning; Work-based learning
- Learning conferences, 295–296
- Learning dialogues, 2, 125–126, 136–137.
See also Dialogue; Public reflection
- Learning goal orientation, 169–170
- Learning history, 110
- Learning organization: characteristics of, 7, 32–33, 53; knowledge transfer in, 36–38
- Learning styles: Kolb's inventory of, 70; in work-based learning, 3–4, 70–76
- Learning teams or sets, 2, 8; in action learning, 90–92, 103, 141; action project selection by, 225–226; in action science, 92; administrative dimension of, 191; as change agents, 196–200; characteristics of, 90, 92; collective leadership in, 57–58; communication and feedback processes of, 142–147, 166–167; competencies in, 45–46; composition of, for action projects, 229–231, 232; content dimension of, 191–192; cross-cultural application of, 284–285; developmental support in, 148–150, 168–169; diversity in, 30; emotions in, 207–211; in executive development programs, 275, 277–278; facilitation of, 8, 185–217; for facilitator training, 202; feelings domain of, 192; global, 289–291, 297–300; in-company, 147–148; leadership development in, 188–189; meetings of, 146–147; membership of, 147–148, 151, 229–231; mixed-company, 148; mixed-hierarchical level, 148–149, 232; norms for, 150–151, 192, 193; personal growth in, 151–152; public reflection in, 141–152; rationale for, 141–142; resistance in, to self-direction, 201–202; role of, in establishing a culture of organizational learning, 40; roles in, 192; skill acquisition opportunities in, 149–150; for transfer of learning, 27; work teams and, 92–93. See also Communities of practice (CoPs); Facilitation; *Team headings*
- Learning-to-learn aptitude: absence of, in traditional approaches, 28; as critical competence, 2, 13, 16; development of, in work-based learning, 28–29; facilitation and, 186; public reflection and, 138
- Learning types: collective-level, 69–70, 74, 76–81, 83–123; individual-level, 69, 70–76
- Leaver, R., 10, 213
- Lectures, 139. See also Classroom learning
- Levenson, A., 177
- Lévi-Strauss, C., 5
- Lewin, K., 63, 197
- Life-study journals, 153
- LIM (Leadership in International Management, Ltd.), 131, 257, 297–300
- Linstead, S., 209–210
- Listening: active, 143–144, 206; lost art of, 9
- Lists, journal, 158
- Logic, 66, 249. See also Positivism (logical empiricism)
- Logical empiricism. See Positivism (logical empiricism)
- Logs, journal, 158
- Lombardo, M. M., 167
- Loss, stages in adjusting to, 198–200
- Luft, J., 144
- ## M
- Maclagan, P., 71
- Maintenance functions, facilitator, 194.
See also Supportive interventions
- Malaysia, 283
- Management, of work-based learning, 8, 243–253
- Management development field, theory and practice in, 63–64, 71
- Management training, traditional: academic controversy and, 249; flaws of, 19–21, 24–30; organizational change and, 251; organizational politics and, 25–26. See also Classroom learning; Training, traditional
- Managers: program, guidelines for, 243–253; public reflection for, 134–135
- Mandalas, 159
- Manipulation, 209
- Mapping techniques, 115–117, 159, 207, 262–263
- Maps of consciousness, 158
- Marquardt, M., 284–285
- Martin, L., 211
- Master-apprenticeship relationship. See Apprenticeship
- Mathophobic learners, 51

- Mauritania, 282
 McArthur, P., 119
 McDermott, L., 178–179
 McDermott, M., 177
 McDermott, R., 99
 McGill University, 178
 McKee, L., 292–295
 McKernan, J., 156
 MDA, 173
 Meaning-making: in action science, 117;
 in communities of practice, 97; in critical
 work-based learning, 61; in public
 reflection, 135
 Measurement, of work-based learning, 8,
 78, 243, 253–272; academic research
 for, 255–257; components of, 246; crit-
 ical approaches to, 262–263; as execu-
 tive buy-in strategy, 252, 253–254,
 255; levels of, 257–261; rationale for,
 253; standard performance indicators
 for, 253–261, 269–272
 Measures: accomplishment- or outcome-
 based, 261; for action projects, 222;
 alternative substantive, 261–272; aver-
 ages and, 261; in developmental plans,
 163; effort or input, 258, 270–272;
 families of, 261; financial, 252, 254; in-
 dividual-level, 259–261, 263–265; of
 intermediate effects, 255; of interven-
 ing effects, 254–255; output, 270–272;
 pretest and after-program, 260; process,
 258, 261, 270–272; project-level,
 269–272; proxy or unobtrusive, 270;
 standard performance, 253–261,
 269–272; team-level, 261, 265–268.
See also Assessment
 Meetings: of learning teams, 146–147;
 scheduling, 147; time-outs in, 131
 Memoirs, 158
 Mendenhall, M., 289
 Mental models, 75, 111, 114, 115,
 119–123, 300
 Mentorship. *See* Coaching/mentorship;
 Developmental relationships
 Mercer, J. R., 142
 Mergers and acquisitions: change dynam-
 ics and, 196–198; work-based learning
 as support for, 296–300
 Messes, 87
 Metacognition, 3, 18, 156–157
 Metacompetencies, 13, 45–46, 184
 Metaphors, 112–113
 Meyer, A. D., 34
 Mezirow, J., 75, 76
 Micro-goals, 183
 Microsoft, 229
 MiL Institute, 297
 Miles, E., 249
 Milestones: for action projects, 222; in de-
 velopmental plans, 162–163; record-
 ing, in journals, 159
 Mindfulness, 287
 Mission, team, 192
 Model I behavior, 114, 136, 207
 Model II behavior, 35, 114, 117, 207
 Modeling, 17, 203, 212, 214, 245
 Modernism, 66
 Monsanto, 37
 Morale, 194, 270
 Morgan, G., 226
 Morgan, T., 256
 Motorola, 257
 Motorola University, 177
 Multicultural sensitivity, 273, 287–292
 Multinationals, work-based learning for,
 287–292, 297–300
 Multiple causality flaw, 43–44
 Multisource feedback: in developmental
 planning, 169–172; in organizational
 strategy, 171–172. *See also* Feedback;
 360-degree feedback
 Mumford, A., 3–4, 149–150
 Mutual engagement, in communities of
 practice, 93
- ## N
- Narratives, 262
 National Action Learning Program
 (NALP), 42
 Nelson, R. R., 100
 Nepal, 282
 Networking, 29, 42–43
 Neutrality, facilitator, 186
 Nevis, E. C., 33
 New learning, the, 8, 11–19. *See also*
 Learning; Work-based learning
 Newcastle Hospital Trust, 48
 Newman, M., 182
 Newton, S., 177
 Nietzsche, F., 39
 Noel, J. L., 288
 Nonaka, I., 68
 Nongovernmental organizations (NGOs),
 281–287
 Nonverbal expression, 103, 104

Normative acceptance, 212
 Norming stage of team development, 193, 194, 195–196
 Norms, team, 150–151, 192, 193
 Nortel Networks Corporation (Northern Telecom Ltd.), 289–290
 Northeastern University, 52, 166–167, 264
 Northern Ireland, 282
 Notre Dame University, 273
 Novak, D., 172

O

Objectives: in developmental plans, 162, 164; management of program, 244–245
 Observation, 74–75, 84, 188
 Off-site training, 20, 21
 Off-the-shelf programs, 28
 Ohmae, K., 3
 On-the-job training, 17
 On-the-spot reframing, 18
 Open-ended query, 182–183, 216
 Open Solution, 103
 Open Space Technology, 108–109
 Opening-up process, 157
 Opportunistic learner, 50
 Order-entry domain, measures in, 270–272
 Organization(s): action learning and, 86–87; capitalist and noncapitalist, 113; communities of practice as, 107–111; conformist, 240; emotions in, 207–211; “learning history” of, 110; Model I and Model II, 114; politics and resistance in, 25–26, 27, 29, 138–140, 199, 239–241, 249–253; socialization and subjugation by, 139–140; 360-degree feedback in, 171–172; traditional training and, 20, 21, 25–26; work-based learning as subversive to, 239–241, 250
 Organization change: facilitation and, 196–200; program managers and, 249–253; psychological impact on instigators of, 252; resistance to, 25–26, 27, 29, 197, 198, 199, 249–253; stages in adjusting to, 198–200; work-based learning and, 40–43, 196–200, 256. *See also* Change; Contextual complexity and change
 Organizational culture: action projects and, 233, 240–241; of assumption-

breaking, 134; experiencing others’, 232–233; facilitator’s understanding of, 178; knowledge-sharing and, 34–35; for leaderful practice, 54–55, 59; mentors’ understanding of, 178; for organizational learning, 40–43, 256; socialization techniques and, 139–140; for work-based learning, 50–53, 241, 249–251. *See also* Organizations
 Organizational learning: action projects and, 226, 241; change and, 1, 32; characteristics of, 7, 32–33; experts and, 38–40; knowledge management and, 33–36; knowledge transfer and, 36–38, 256; reflective practice and, 135; work-based learning and, 6–7, 31–43; work-based learning as engine of, 40–43, 256
 Orientation, 273–274, 275
 Originating, 265
 Orr, J. E., 100
 Others, inquiring with, 213, 214–215. *See also* Inquiry; Public reflection
 Outcome trends tracking, 256
 Outcomes. *See* Measurement
 Output measures, 270–272
 Ownership, project, 225
 Oxford University Press, 227

P

Pain-avoidance model, 136
 Paraphrasing, 143
 Parisi-Carew, E., 194
 Participant change, measuring, 254–255, 257–261
 Participant recruitment, 244
 Participative Design, 108
 Participative management, 261
 Partnerships: in learning, 41; for work-based learning in schools, 46–47
 Past experiences, re-evaluation of, 18
 Peace, W., 60
 Pedagogy: andragogical, 187–188; critical, 61, 139; cultural differences in, 283
 Pedler, M., 44
 Peer assessment, 260
 Peer mentoring, 177–178
 Pennsylvania State University (Penn State), 160, 292–295
 PepsiCo, 183–184
 Perception checking, 143
 Perceptual errors, 128

- Performance analysis, 69
- Performance appraisal, developmental planning and, 165
- Performance criteria, in developmental plans, 163
- Performance gaps, 164
- Performance indicators: alternative, 261–272; standard, 253–261, 269–272. *See also* Measurement, of work-based learning; Measures
- Performing stage of team development, 193–194, 194, 195, 196
- Personal growth: in developmental planning, 165–168; in learning teams or sets, 165–168, 209; measures of, 263–265; in work-based learning program, 266–268. *See also* Emotions; Psychological work
- Pharmaceutical case example, 297–300
- Phelan, D. R., 257
- Phenomenological reduction, 117–118
- Philippines, 282, 283
- Phillips, L., 276
- Philomathic learners, 51
- Piaget, J., 265
- Pickwick Papers, The* (Dickens), 1
- Piggybacking, 39
- Pitcher, P. C., 136
- Planning: action projects *versus*, 223–224; in change, 200; reflective practice and, 135
- Plato, 127
- PLS-Consult, 272
- Politics and power: action projects and, 239–241; critical approaches and, 61, 62, 113, 138–140, 211–212, 262, 287; executive support and, 249–253; frame of, 133; knowledge and, 287; measurement and, 262; organizational, 24–26, 27, 29, 138–140; public reflection and, 130
- Portfolios, 8; electronic, 159, 160–161; in executive development programs, 277; for reflective practice, 141, 151, 157–161, 277
- Portraits, journal, 158
- Positive thinking, 10
- Positivism (logical empiricism), 66, 77, 130
- Poteet, M. L., 176
- Power. *See* Politics and power
- Power distance, 283–285
- Practice, reflective. *See* Public reflection; Reflection
- Practice-based learning outcomes, 264–265
- Practice-theory dimension, 63–67, 70, 77, 80
- Practice time, 21, 27
- Pragmatic role, 4
- Prasch, K., 178
- Praxis, 78, 138, 211–212, 223, 262
- Prescriptive interventions, 190
- Presentations, 227–229, 234, 235, 247, 275, 278
- Pretesting, 260–261, 269
- PricewaterhouseCoopers, 37
- Prince of Songkla University, Department of Medical Nursing, 286–287
- Probing: in developmental relationships, 182–183; in facilitation, 205–206, 213, 216–217; as reflective practice skill, 213, 216–217. *See also* Questions and questioning
- Problem, becoming part of the, 267
- Problem posing, 129
- Problem solving: in learning teams, 144; normal pattern of, 126, 128–129; and problem dissolving, 87; public reflection and, 126, 128–129
- Process adviser (PA), 175–176, 277
- Process dynamic, 262
- Process mapping, 262–263
- Process masters, 38
- Professional behavior change, measures of, 268–269
- Progoff, I., 153
- Program manager guidelines, 243–253
- Programmed instruction and learning, 85, 91, 99
- Progressive learning model, 101–102
- Project database, 247
- Project work: communities of practice and, 92–93, 94; in executive development programs, 275; facilitation and, 185, 186–187; leadership development and, 27–28; levels of competencies in, 45; measures in, 269–272. *See also* Action projects
- Projective visualization, 114–115
- Prospectus: action project, 237–238; work-based learning program, 253
- Proxy indicators, 270
- Psychological work: in developmental planning, 168; in developmental rela-

- tionships, 183, 184; in facilitation, 202–203, 207–211. *See also* Emotions; Personal growth
- Public discourse. *See* Discourse; Public reflection
- Public reflection (reflective practice), 8, 125–140; in action learning, 85–86, 89–92; in action science, 111–114, 122–123; in collaborative leadership, 58; critical, 138–140, 286–287; cross-cultural aspects of, 282–287; defined, 125; developmental planning for, 161–172; developmental relationships for, 172–184; in executive development programs, 276–277; experience and, 129–132; facilitation of, 185–217; journaling for, 141, 152–159, 277; lack of, in developmental experience approaches, 22–23, 24; in large-group interventions, 108; learning teams for, 141–152; levels of learning in, 126; meta-competencies in, 45–46; nature of, 125–129; for organizational learning, 40; portfolios for, 141, 151, 159–161, 277; practicality of, 132–136; practices of, 8, 141–184; private reflection and, 131, 136; rationale for, 127–129, 132–136; in school-to-work programs, 48–49; skill portfolio for, 213–217; in traditional *versus* work-based learning, 22–23, 24, 30; unification-fragmentation dilemma and, 137–138; in virtual teams, 103–104. *See also* Learning teams; Reflection
- Public sector, work-based learning in, 281–287
- Putnam, R., 111–112, 119
- Q**
- Quality tools, 7
- Quantitative metrics, 269. *See also* Measures
- Questions and questioning: for action project reports, 235–237; in action science, 111, 112–113; in collaborative leadership, 58–59; in critical approaches, 61–62, 138–140, 212; cultural differences in, 285; in developmental planning, 162–163, 168; in developmental relationships, 182–183; in journals, 154; as leadership competency, 28; in learning teams, 142–143, 146; nondefensive, 142–143, 298. *See also* Assumptions; Inquiry; Probing; Public reflection; Reflection
- R**
- Rackham, N., 256
- Raelin, J. A., 212, 213
- Rahman, M. A., 287
- Ramirez, R., 226
- Randomized experiments, 256
- Real-time learning, 6
- Reason, P., 188, 210
- Recipe methods, 6–7
- Reed Travel Group (Reed International), 256–257
- Reengineering, 7
- Reflection: action orientation *versus*, 10–11, 132–133; collective leadership and, 57; content-process-premise model of, 75–76; critical, 60–62, 138–140, 286–287; defined, 125; in executive development programs, 276–277; as individual learning mode, 74–76; in large-group interventions, 108; in learning as a way of being, 6; metacognition and, 3; in “new” learning, 13; process, 75; in time-outs, 131; in traditional *versus* work-based learning, 22–23, 24; in work-based learning, 2–3, 8, 125–140. *See also* Public reflection
- Reflection-in-action, 18, 112, 182
- Reflections assessment tool, 175–176
- Reflections Competency Library (CCL), 260
- Reflective-action learning groups (RALG), 284
- Reflective judgment model, 75
- Reflective practice. *See* Public reflection; Reflection
- Reflector role, 3, 4
- Reframing. *See* Framing and reframing
- Reilly, R. E., 68
- Relationships: experiential learning and, 167; facilitation and, 192; loss of, 198; measures of effects on, 265–268; reflection and, 126–127, 136–137. *See also* Developmental relationships
- Relevance, 28, 29, 300
- Report, action project, 235–237, 278

Research methods, as study topic, 276
 Resistance: to action projects, 239–241;
 to change, 197, 198, 199; as hidden
 cost, 269; to learning, 24–26, 29, 51,
 201–202; learning teams as support for,
 27, 151; mathophobia and, 51; to self-
 direction, 201–202; of top manage-
 ment, 249–253; in traditional training,
 24–26, 27, 29; to writing action
 project reports, 234
 Results Base Leadership (RBL), 226–227
 Retrospective post-then design, 260
 Return on investment (ROI): for execu-
 tive education, 18–19; for management
 training, 19; for traditional *versus* work-
 based learning, 30. *See also* Measurement
 Revans, R., 1, 11, 85, 86, 91, 203, 221–222
 Reynolds, M., 262
 Rigg, C., 62
 Rimanóczy, I., 131
 Risk taking, 42, 50, 59, 241, 250, 261
 Robert Wood Johnson Foundation, 47
 Role-plays, 183, 207
 Romm, N., 212
 Ross-Gordon, J. M., 129
 Roth, G., 110
 Rowan, J., 188
 Runners, 10
 Ryle, G., 68

S

San Francisco community hospital, 34
 Saner, R., 286
Satipatthana, 286–287
 Satisfaction measurement, 258, 270
 Scaffolding, 17
 Scandia, 272
 Scenarios and scenario building, 183, 184,
 207, 262–263
 Schaffer, R., 178
 Scheduling, 147, 247
 Schön, D. A., 65, 72, 111, 112, 113, 114,
 252
 School-based learning, 46
 School-to-Work Opportunities Act, 46
 School-to-work programs, 6, 48
 Schools, work-based learning in, 46–50
 Schools to Careers, 47–48, 49
 Scientific method, 6, 76–79, 80, 112
 Scott, C. D., 198
 Scribner, S., 100

Scripts, 183
 Search Conference, 108
 Sears, Roebuck and Company, 133,
 254–255
 Second-order (double-loop) learning: in
 action projects, 223, 224–225; in ac-
 tion science, 111; cultural differences
 and, 284; defined, 15–16; facilitation
 and, 186; in learning teams, 57; public
 reflection and, 126; in work-based
 learning programs, 266, 267–268
 Security, loss of, 198
 Seduction, 209
 Self, staying with, 213, 214–215
 Self-awareness: in critical approaches,
 61–62; feedback for, 127–128, 144–
 146, 283, 300; public reflection and,
 127–128, 140
 Self-direction, 5; resistance to, 201–202
 Self-disclosure, 145, 146; in facilitation,
 213, 215–216
 Self domain, substantive measures in,
 263–265
 Self-efficacy, 52, 169–170, 264
 Self-fulfilling reasoning, 129
 Self-knowledge, of masters, 39
 Self-managed teams, 56
 Self-referential reasoning, 138
 Seminars, in executive development pro-
 gram, 275, 276
 Sensemaking, 34
 Shared leadership, 54. *See also* Leaderful
 practice
 Shared repertoire, in communities of
 practice, 94
 Shaw, G. B., 63
 Shell Oil Company, 37, 41, 257
 Shepherds-retirees, 37
 Showers, B., 256
 Shuit, D. P., 171
 Siemens AG, 43
 Simulations: and experimentation, 72–73;
 limitations of, 24, 64, 84, 101
 Sincerity, 212
 Singapore, 284
 Single-loop learning. *See* First-order learn-
 ing; Trial-and-error learning
 Situated learning: in developmental rela-
 tionships, 174; literature on, 101–102
 Situational leadership model, applied to
 group development, 194–196
 Six sigma, 256, 262

- Six Thinking Hats, 118–119
- Skills and skill acquisition: in developmental relationships, 183; generic managerial, 268–269; instruction for, 17; in learning teams, 148–150; obsolescence of, 11–12; for reflective-practice facilitators, 212–217; substantive measures of, 268–269; in work-based learning, impact studies on, 256–257. *See also* Competencies
- Skunkworks, 250
- Slovenia, 281
- Slowing down, 10–11
- Smith, D., 119
- Smith, D. K., 92
- Smith, K., 290–291
- Smith, P.A.C., 3
- Smith, R., 133
- Snyder, W. M., 99
- Social histories, 158
- Social learning theory, 52, 75, 264, 289
- Social science, applied, 78
- Social transformation, compassionate leadership and, 60
- Socialization techniques, 139–140
- Socrates, 127
- Socratic dialogue, 114–115
- Soft systems methodology (SSM), 115
- Solution database, 126, 128–129
- Southern Company, 226–227
- Southern School (of action learning), 287
- Southwest Airlines, 56–57
- Speaking, as reflective-practice skill, 213, 215
- Speed obsession, 9–11
- Spicer, D. P., 262
- Sponsor involvement: in action projects, 224–228, 239–240; in developmental planning, 164; in work-based learning programs, 245–246
- Sponsors: commitment of, in traditional *versus* work-based learning, 29; defined, 244; informal contract with, 245; program measurement for, 253; project presentation to, 227–229; project report to, 235–238; as project selector, 224; project's strategic value to, 219–220, 223–224; roles of, 245–246; support from, 246
- Spontaneity, 4–5
- Stacey, C. U., 167
- Stamps, D., 21
- Stanton, S. A., 134
- Status quo, challenges to, 59, 134, 239–241, 249–253. *See also* Assumptions, challenging; Resistance
- Stepping-stones, 159
- Sticky notes, 298
- Stop-and-reflect periods, 130–131, 299
- Storming stage of team development, 193, 194, 195
- Storytelling, 17
- Strategic linkage: of action projects, 219–220, 223–224, 226, 230–231; of work-based learning, 252, 253–254
- Strategic myopia, 232–233
- Strategic planning, reflective practice and, 135
- Strategic self-presentation, 165
- Strategic team, action learning in, 58
- Stress, reflection and, 136–137
- Stretch assignments, 22
- Structural frame, 133
- Stuart, R., 256
- Substantive measures, 261–272; general guidelines for, 261–272; in interpersonal and team domain, 265–268; in professional behavior domain, 268–269; in project domain, 269–272; in self domain, 263–265
- Success, learning from, 33
- Success criteria, 245
- SUPERVALU, 234, 295–297
- Supervisors, as coaches, 176
- Supportive interventions, 190, 191, 194–196
- Surprises, journaling of, 159
- Surrendering, 179
- Susan Vogt Leadership Fellows, 245–246, 279–280
- Suspending, 214
- Sustainability, 60
- Sveiby, K. E., 19, 39, 272
- Sweden, 298–299
- Switzerland, 281
- Symbolic frame, 133
- Synectics, 91
- Systemic-action competency, 261
- Systems theory, 270
- ## T
- T-group movement, 13
- Tacit knowledge, 34, 65, 67–69; action learning and, 80, 84, 89–90; in

- collective-level work-based learning, 77; and conceptualization, 73; in developmental relationships, 182; in individual-level work-based learning, 70; and learning from experience, 73–74, 300
- Taylor, E. W., 126
- Teacher role: cultural differences in, 283; in traditional learning, 25, 67; in work-based learning, 17–19
- Team conflict: in communities of practice, 100; cooperative inquiry for, 210, 216; in global teams, 290; team development and, 193, 195–196
- Team development: concurrent leadership and, 55–56; facilitation and, 188–189, 192–196; situational leadership model applied to, 194–196; stage models of, 192–196; in virtual teams, 105, 106; from work team to learning team, 92–93. *See also* Learning teams
- Team-level measures, 261, 265–268
- Teams, global, 289–292, 297–300
- Teams, learning. *See* Learning teams
- Technical facilitation, 105
- “Telling” style of facilitation, 195
- Territory, loss of, 198
- Testing: as reflective-practice skill, 213, 216; spontaneous, 18
- Thailand, People Assembly for the Democrat Party in, 109–110
- Theoretical self-consciousness, 76
- Theorist role, 3–4
- Theory: and action learning, 84, 89–90, 91; in applied science, 78; building, 64–65, 69, 74–76; conceptualization and, 71–72; espoused *versus* in-use, 72–73, 112, 120, 128, 204, 276; and practice modes of learning, 63–67, 77, 78, 80; reflection and, 74; of work-based learning, 63–81, 249, 250
- Thinking about thinking, 126
- Thirapantu, C., 109–110
- Third-order (triple-loop) learning: in action projects, 223, 224–225; in action science, 113; defined, 15–16; facilitation and, 186; public reflection and, 126
- 360-degree feedback: cross-cultural use of, 283–284; in developmental planning, 169–172; in developmental relationships, 181; for executives, 252; pre-program, 260, 297. *See also* Feedback
- Time-outs, 131
- Time series analyses, 256
- Timeframe, of work-based learning projects, 234, 275
- Tokyo String Quartet, 95
- Training, facilitator, 200–203
- Training, traditional: distributed, 27; flaws of, 19–21, 24–30; resistance to learning in, 24–26, 27, 29; work-based learning *versus*, 26–30, 41–42. *See also* Classroom learning; Management training
- Transfer of learning: with action learning, 27, 232; third-order learning and, 15; with traditional developmental experiences, 22–23; with traditional training, 19–20, 27; with work-based learning, impact studies on, 256–257. *See also* Knowledge transfer
- Transformative learning, 76
- Transitions, stages in, 198–200
- Trehan, K., 62
- Trial-and-error learning: defined, 15–16; and failure, 33; public reflection and, 126; of tacit knowledge, 68. *See also* First-order learning
- Triple-loop learning. *See* Third-order learning
- Trust: in public reflection, 140; in virtual teams, 103–104
- Tuckman, B. W., 192–194
- Turbulence. *See* Change, pace of
- Turner, E., 298–299
- Twain, M., 140
- Tyre, M. J., 233

U

- Unconscious: denial and, 199; emotions in, 208; expertise and, 99; group dynamics and, 202–203; power differentials and, 139; theories-in-use and, 72
- Unfreezing, 233
- Unification-fragmentation dilemma, 137–138
- United Kingdom: AstraZeneca in, 298–299; Home Office, 231; National Health Service, 248–249
- United States, cultural aspects of, 283, 284, 288–289
- U.S. Army, Center for Army Lessons Learned (CALL), 36

U.S. Department of Labor, 255
 U.S. Navy Seals, 95
 U.S. Postal Service, 260–261
 United Technologies, 60
 University education, critique of, 49–50.
 See also Academic programs
 University of Huddersfield, 208
 University of Minnesota, 19
 University of Northumbria, 48
 University of Texas, 116
 University of Westminster, 249
 Unobtrusive measures, 270
 Unpredictability: action project choice
 and, 220; generic competencies and,
 43–44; metacognition and, 18; public
 reflection and, 135–136
 Unsent letters, 159
 USB, 234

V

Vaill, P. B., 5–6, 32
 Vending business, 293–294
 Vernon, S., 262–263
 Verstegen, B., 232
 Vicere, A., 294–295
 Vidal, G., 185
 Vince, R., 211
 Virtual communities of practice (VCoPs),
 102–107
 Virtual team learning, 102–107
 Visioning, 200
 Visualization, projective, 114–115
 Vocational education, 6
 Vocational learning, 63
 Von Hippel, E., 233
 Vulnerability, 151, 203, 213, 214, 215,
 216, 239

W

Wal-Mart, 133
 Washington, G., 216
 Weaver, R. G., 192
 Web-based collaboration tools, 105
 Weinstein, K., 51–52, 149–150, 240
 Weisbord, M., 108
 Welch, J., 278
 Wenger, E., 64, 93–94, 98, 99, 130
 West, P., 224
 Western culture: directness in, 289, 291;
 egalitarianism and, 127, 284–285; pos-

itivism and, 130; power distance and,
 283–285
 Western Europe, 288
 Westinghouse, 60
 Wheeler, K., 187
 White space endeavors, 239
 Wilde, K., 165
 Winston Cup pit crew, 95–96
 Winter, S. G., 100
 Wisdom, *versus* knowledge, 38–39
 Wisdom Circles, 108
Wisdom of Teams, The (Katzenbach and
 Smith), 92
 Wolverhampton Business School, 103
 Work-based learning: with academic
 affiliations, 247–248; administrative
 structure for, 246–247; applications of,
 273–300; case examples of, 292–300;
 collective-level learning types and,
 69–70, 76–81, 83–123; competencies
 and, 43–46; comprehensive model of,
 79–81; conceptual model of, 69–81;
 critical nature of, 60–62, 138–140,
 211–212, 262; cross-cultural adapta-
 tions for, 283–287; cycles of, 247; in
 developing countries, 281–287; di-
 mensions of, 65, 69; distinctiveness of,
 6–7, 31–62; educational policy and,
 46–50; elements of, 2; as engine of
 organizational change, 40–43; epis-
 temology of, 64, 67, 68, 69, 75, 76;
 explicit-tacit knowledge dimension of,
 65, 67–69, 70, 80; field of, 6; in global
 contexts, 273, 280–292, 297–300; at
 individual level, 69, 70–76, 229, 230,
 274–277; individual-level learning
 types and, 3–4, 70–76; individual pre-
 disposition to, 50–52; integration of
 traditional learning with, 26–30; and
 leadership, 53–60; for leadership de-
 velopment, 27–28; and learning as a
 way of being, 5–6; learning styles in,
 3–4, 70–76; management of, 243–253;
 measurement of, 8, 78, 243, 252,
 253–272; the new learning and, 8,
 11–19; organic methodology of, 7; or-
 ganizational conditions for, 50, 52–53,
 241, 249–251; organizational learning
 and, 6–7, 31–43; other methods com-
 pared to, 6–7, 8, 31–62; outcomes of
 example, 294, 296–297, 299–300;
 overview of, 1–8; program manager's

roles and responsibilities in, 243–247;
prototype program of, 8, 273–280; rationale for, 1–2, 7–8, 9–30; reflection in, 2–3, 125–140; reflective practices in, 141–184; subversiveness of, 239–241; technologies of, 2, 8; theory of, 63–81, 249, 250; theory-practice dimension of, 63–67, 77, 78, 80
Work self-efficacy, 52, 264
Work teams, learning teams and, 92–93
Workplace: as site of action projects, 231–233; as site of learning, 16–17, 19, 41–42, 57. *See also* Work-based learning
World Bank, 37
World Café, 108, 109–110

X

Xerox, 21, 107

Y

Yeo, R. K., 284
Yiu, L., 284–285, 286
Yum Brands, 171–172

Z

Zeneca group PLC, 297. *See also* Astra-Zeneca
Zero-order learning, 15