

PREDICTIVE MODEL TO ASSESS PERSONNEL READINESS

J. BAHLIS, PH.D., P. ENG.

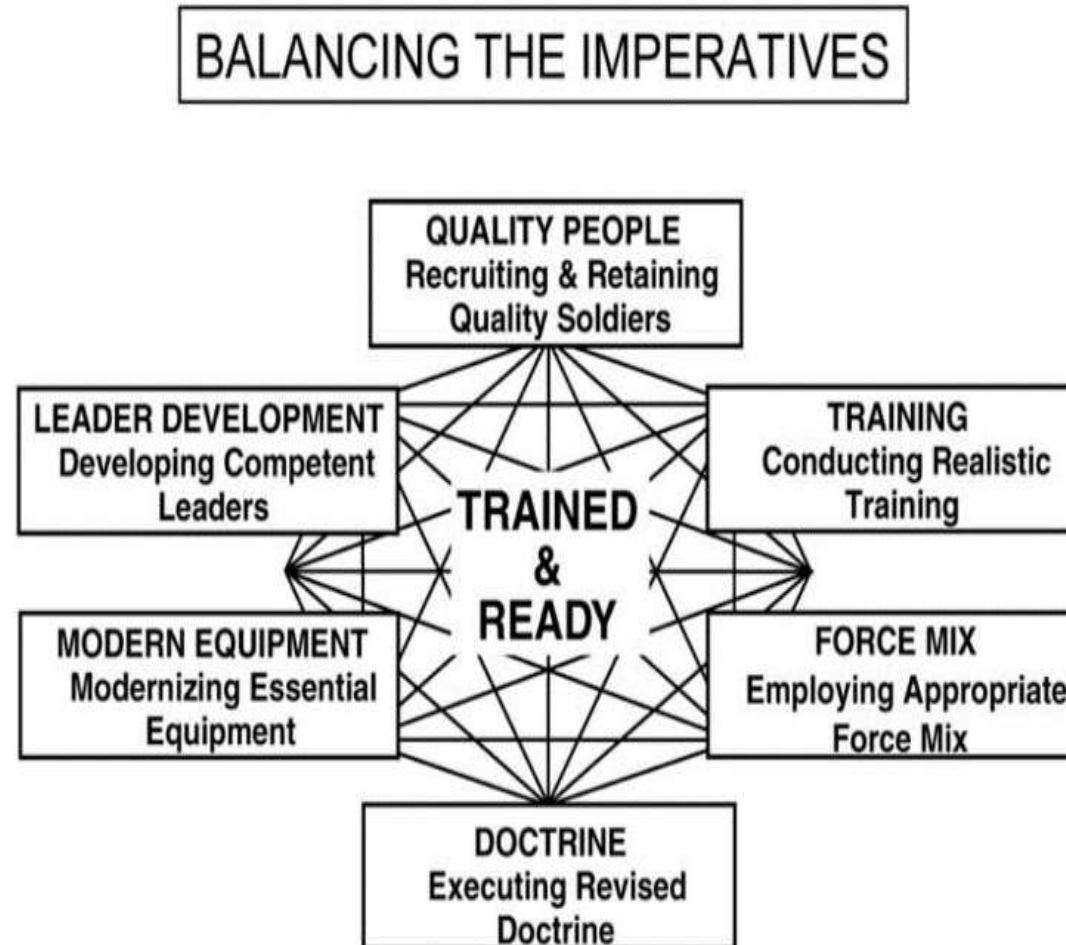
Operational Readiness Definition

Ability to perform missions or functions ...



How Operational Readiness is Maintained

US Army ...



How Operational Readiness is Assessed ...

Conducting realistic training scenarios ...



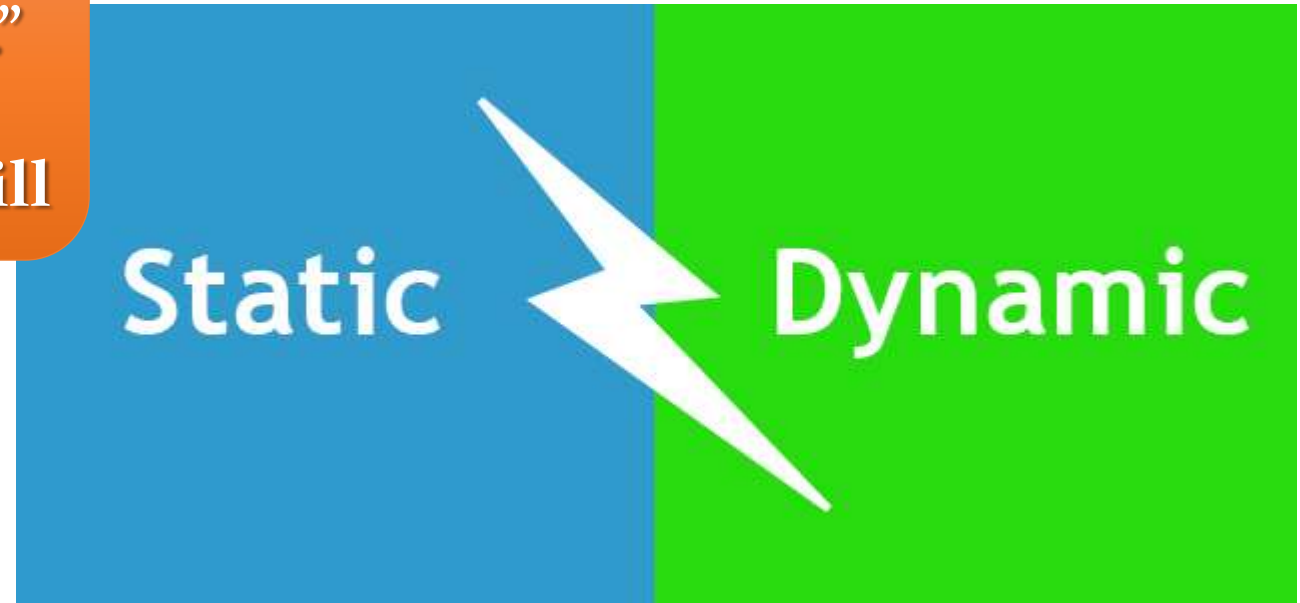
❖ Limited opportunity for improvement



Issues: How to Manage Change

**“To improve is to change; to
be perfect is to change often.”**

Winston Churchill



❖ Readiness assessed after exercise completion



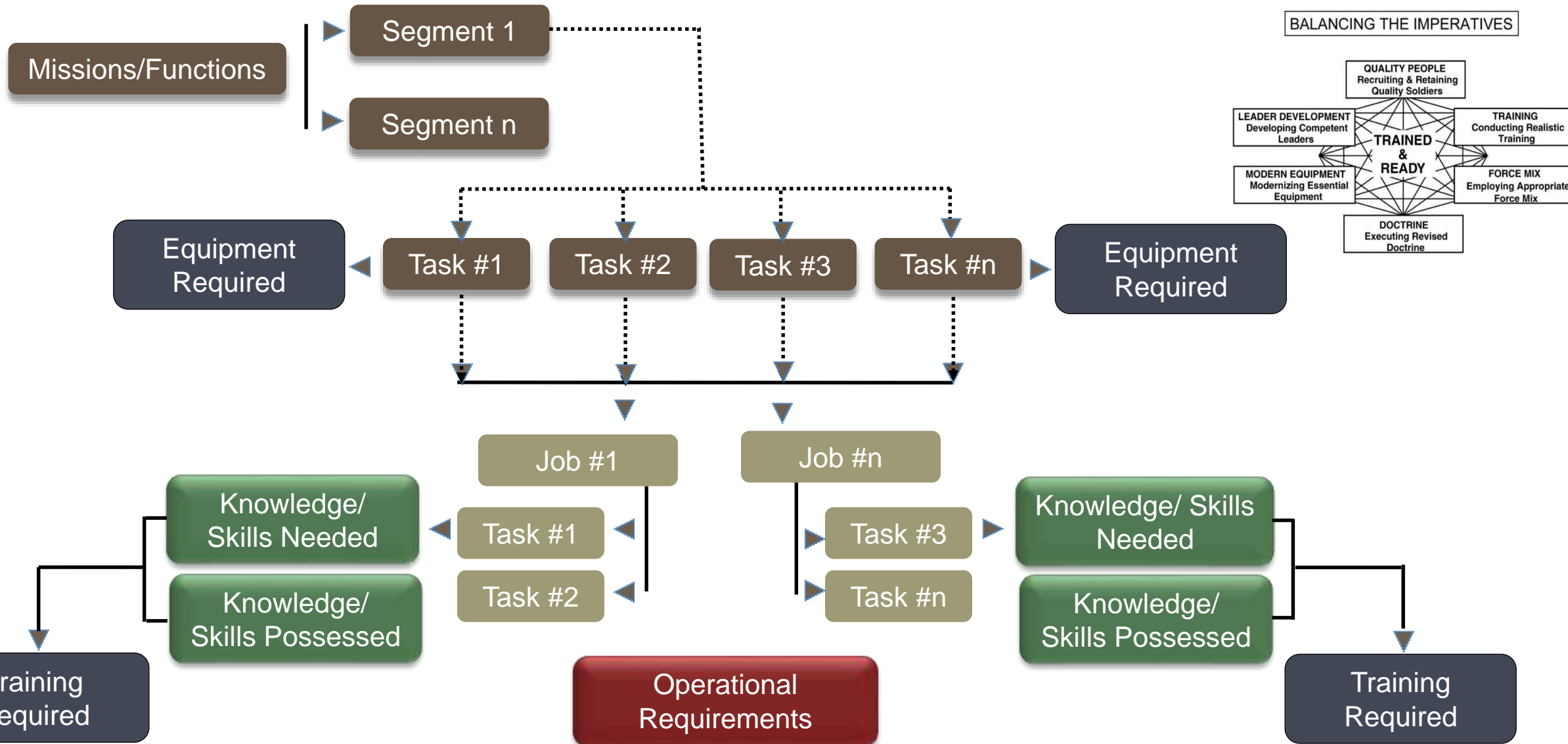
How to Resolve ...



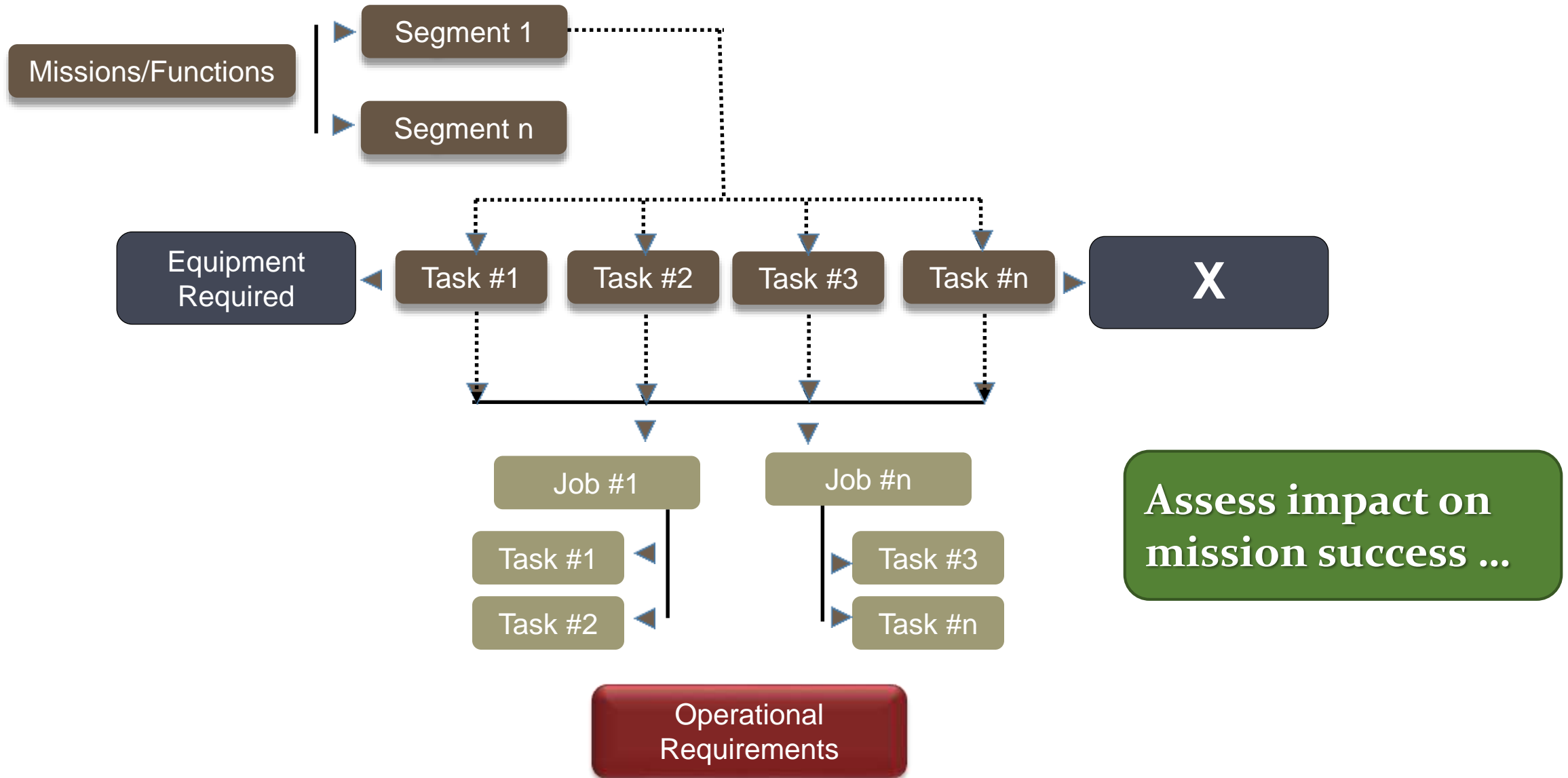
Predictive model to assess ability to perform missions or functions in Planning Phase.



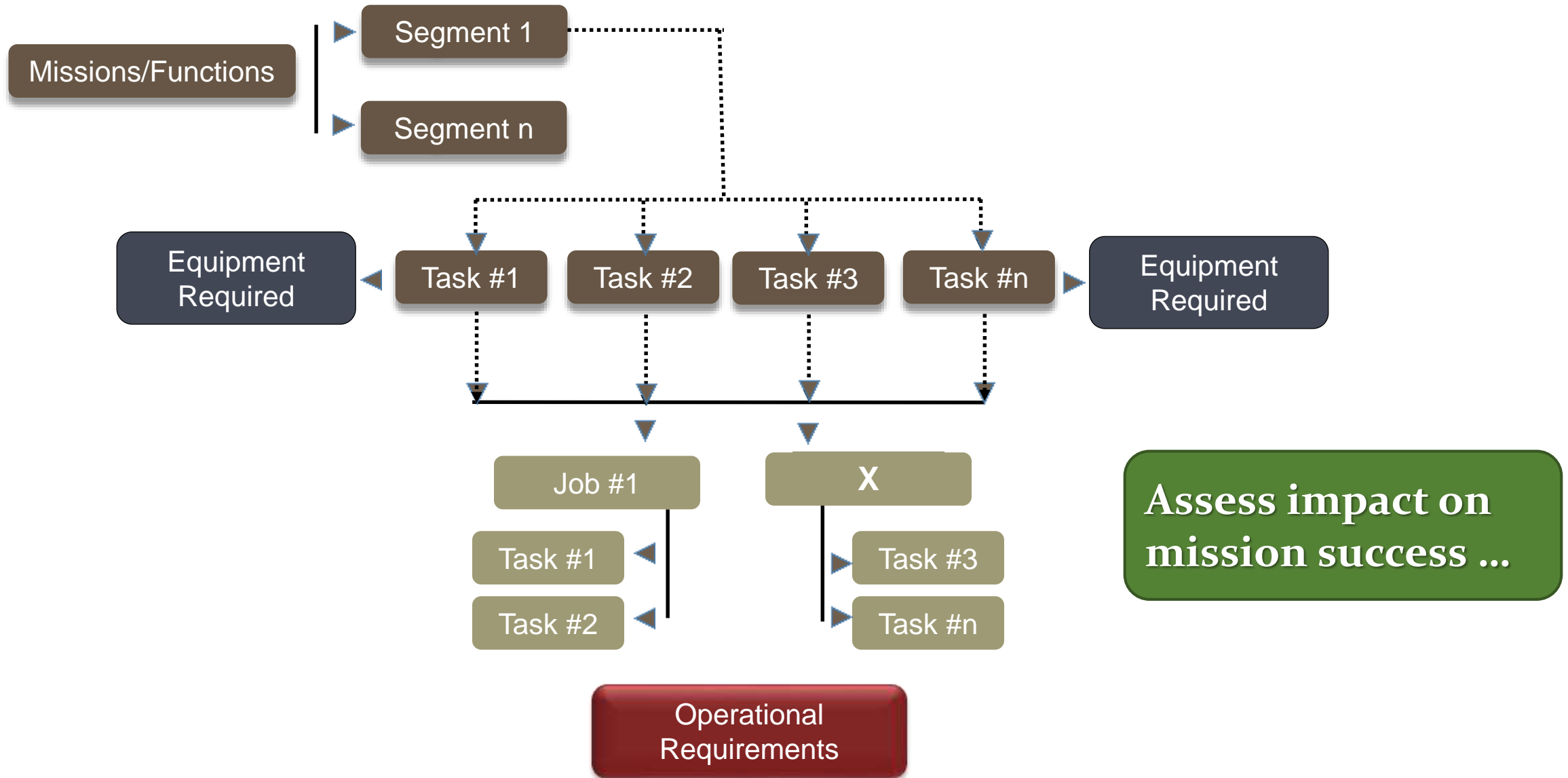
How it works: Captures Key Requirements



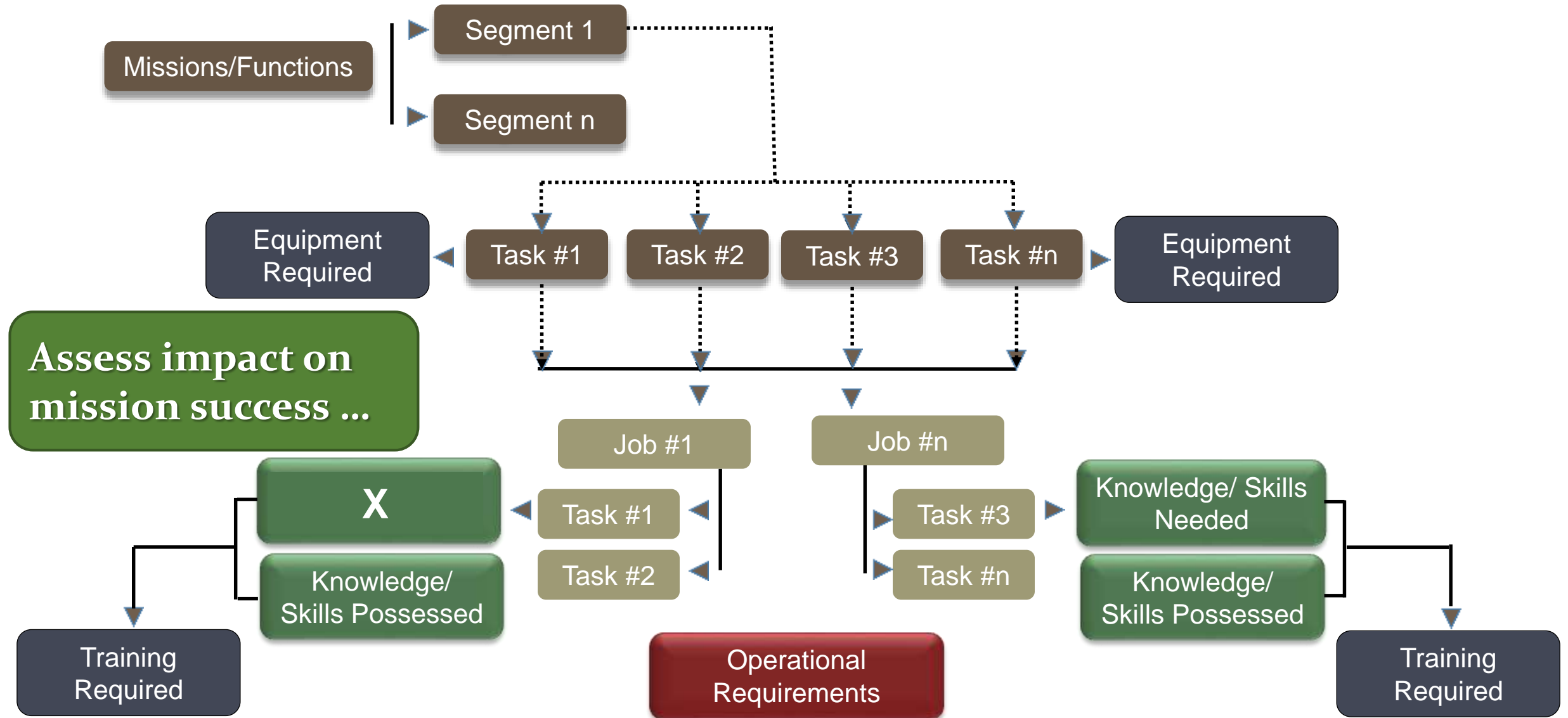
How it works: Compare Actual to Ideal **Equipment**



How it works: Compare Actual to **Force Mix**



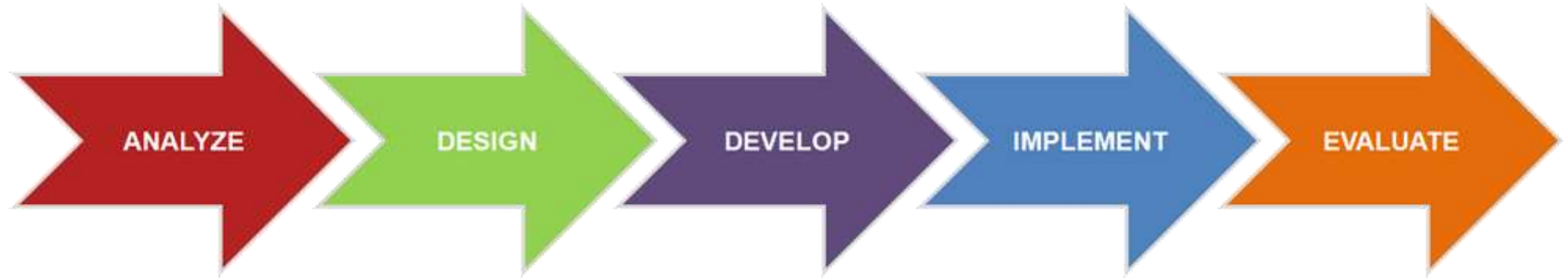
How it works: Compare Actual to **KSA**s





KEY TAKEAWAY

Analysis is key to Evaluation ...



BENEFITS / ADDED VALUE

❖ Assess readiness during planning phase.



Benefit: Identify Deficiencies/Gaps

- ❖ Assess impact of deficiencies/gaps on job performance & mission success.



Benefit: Identify Actions for Success

❖ Identify actions that would increase chances for success.



Benefit: Conduct Multiple What-if-Scenarios

- ❖ Identify equipment, job mix & training needed to support new operational requirements.



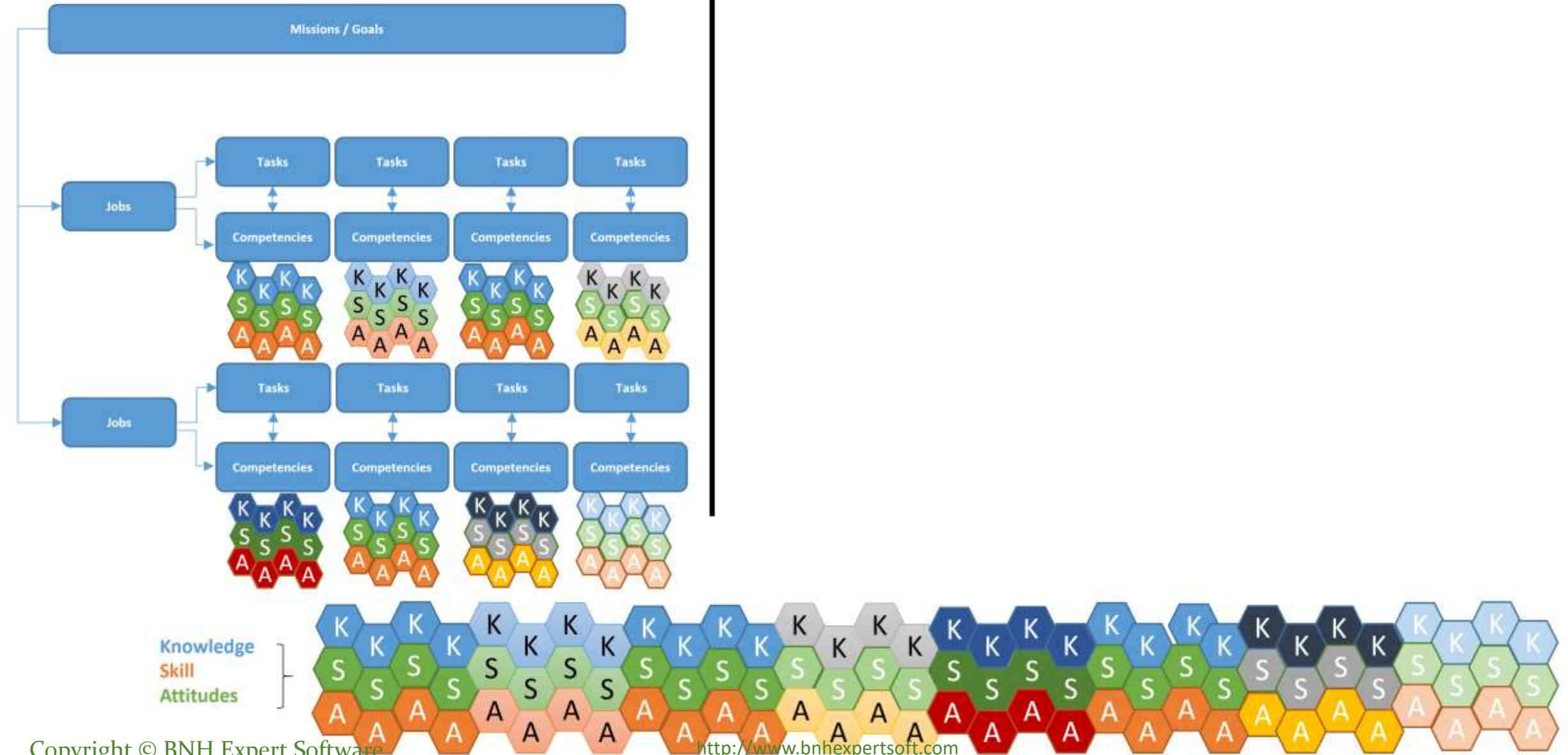
Benefit: Quickly Assess Impact of Change

- ❖ Identify impact of changes, updates & amendments to missions, jobs, policies & equipment on organization readiness.



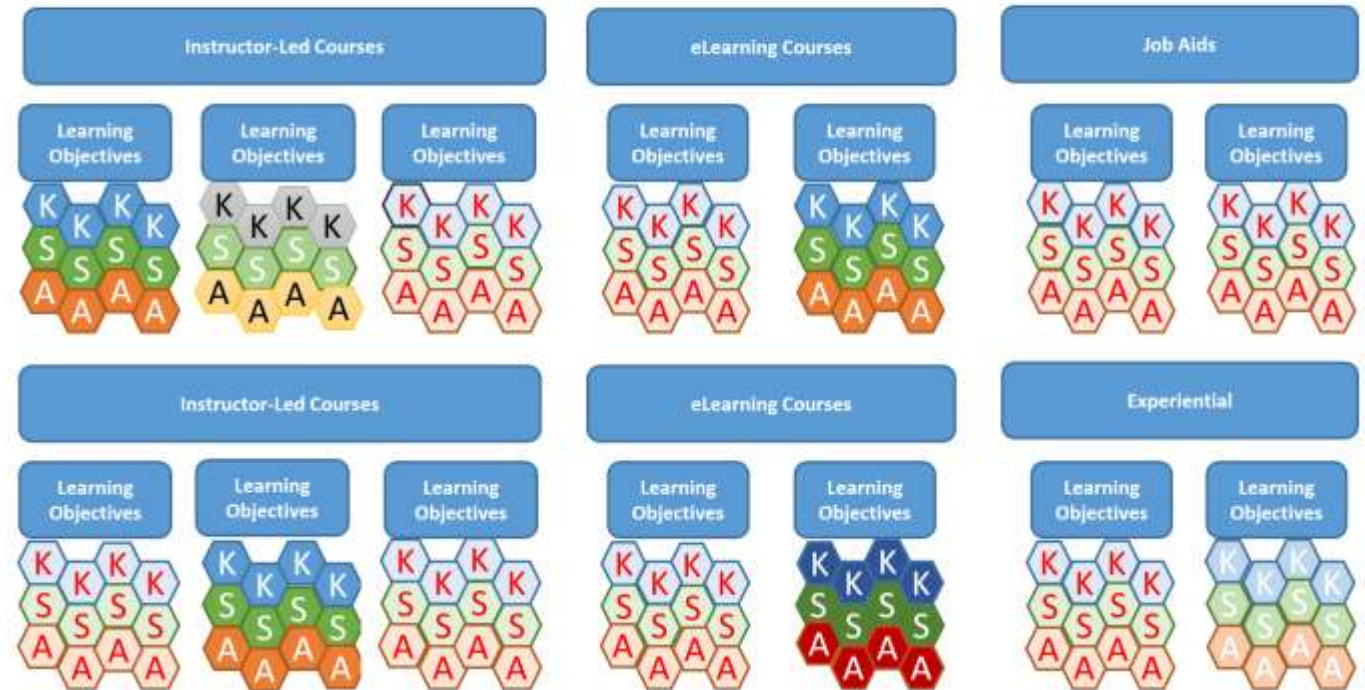
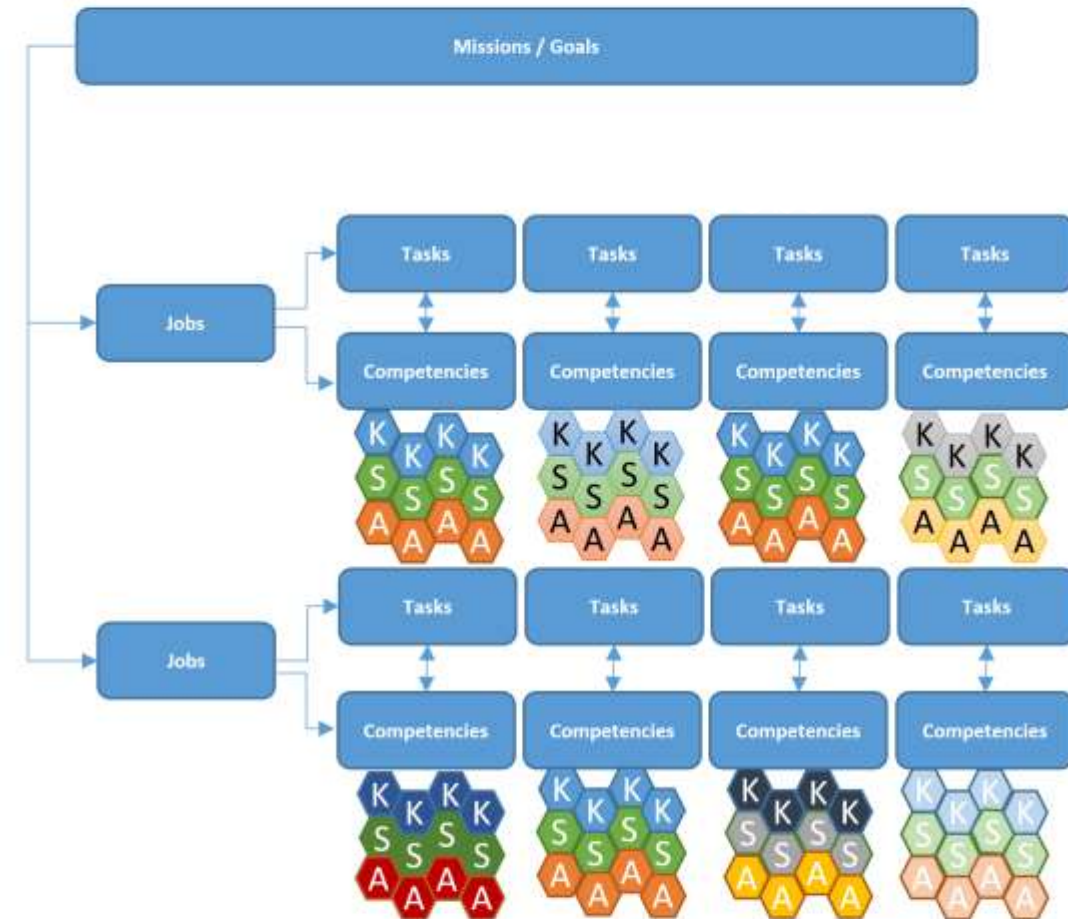
OPERATIONAL REQUIREMENTS

TRAINING ACTIVITIES



OPERATIONAL REQUIREMENTS

TRAINING ACTIVITIES

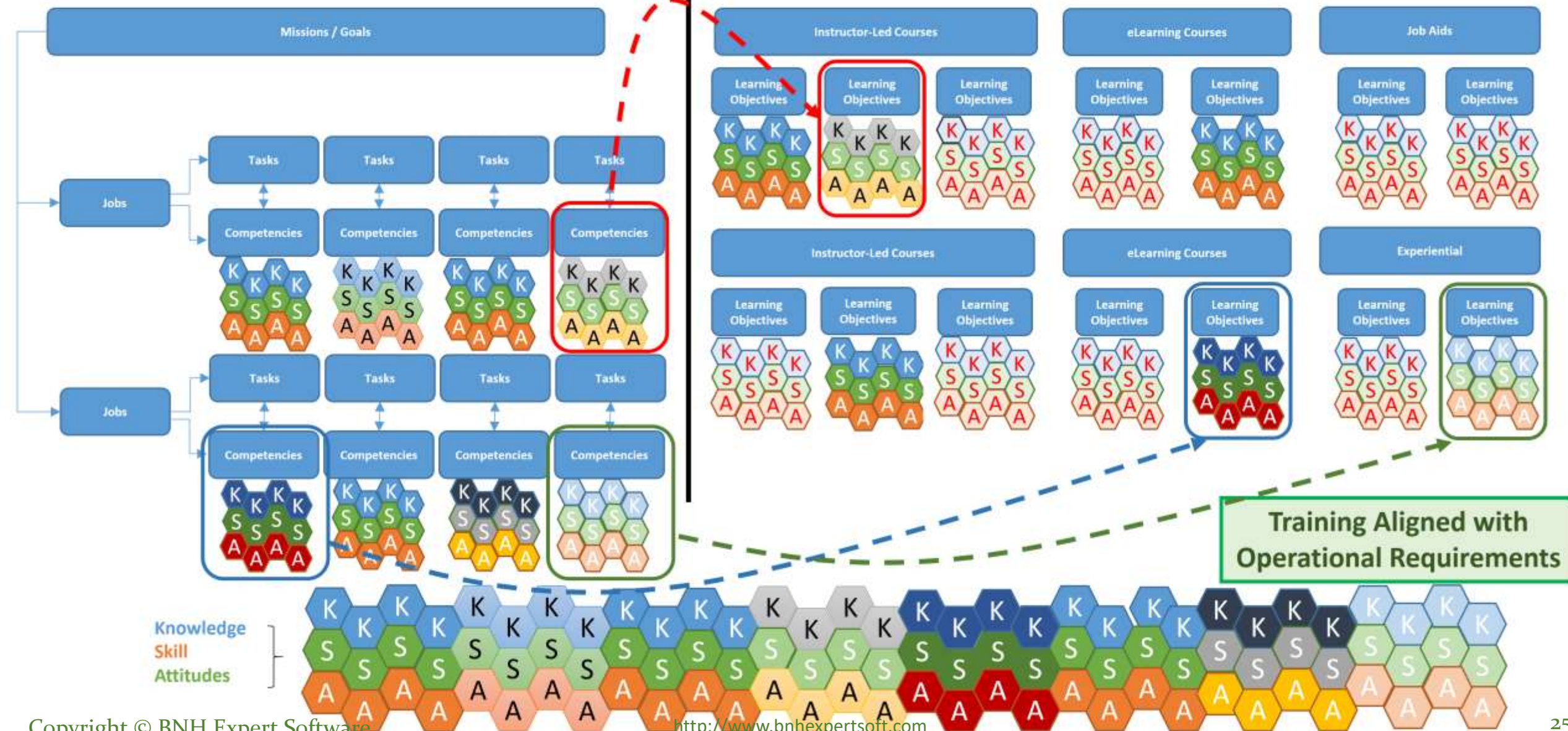


Knowledge
Skill
Attitudes



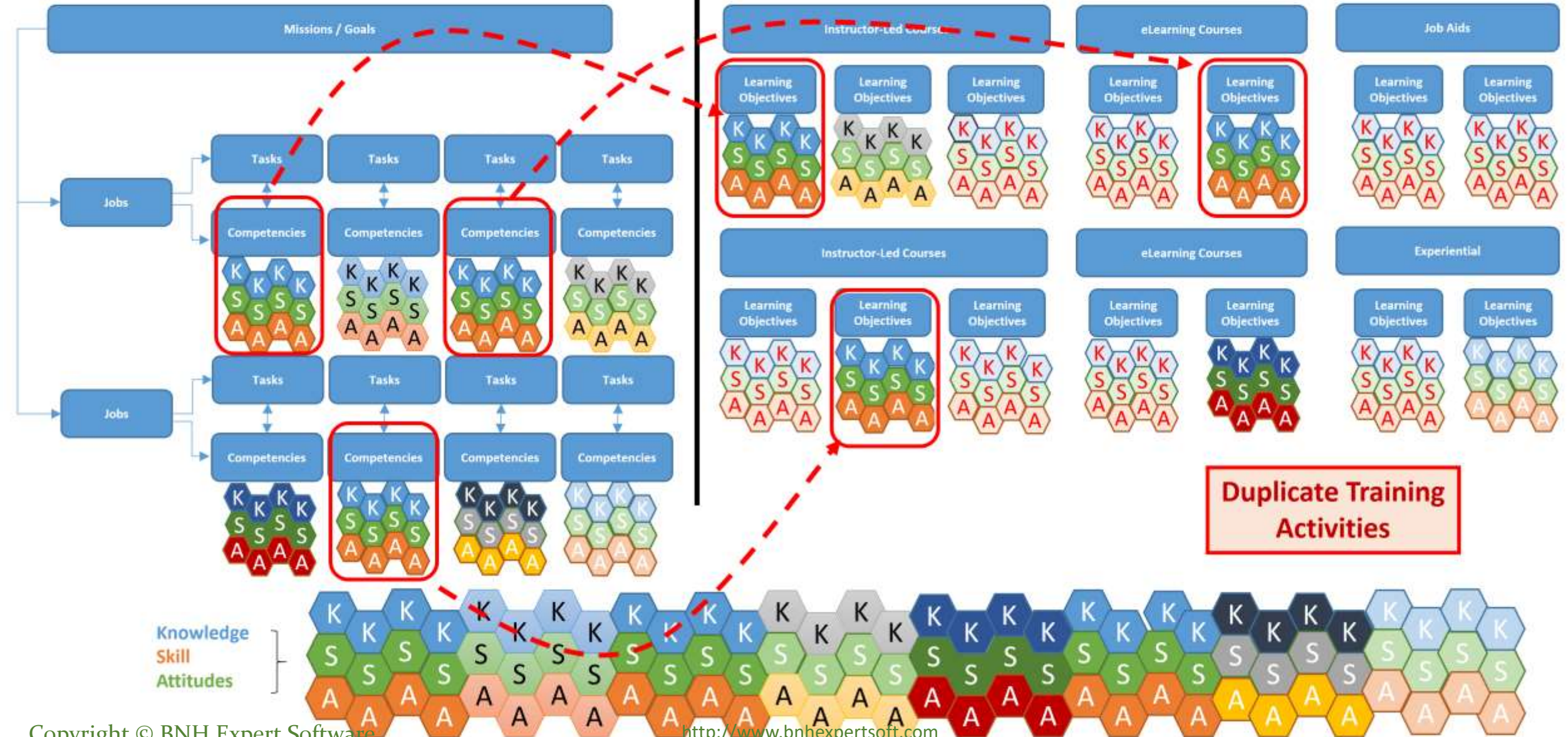
OPERATIONAL REQUIREMENTS

TRAINING ACTIVITIES



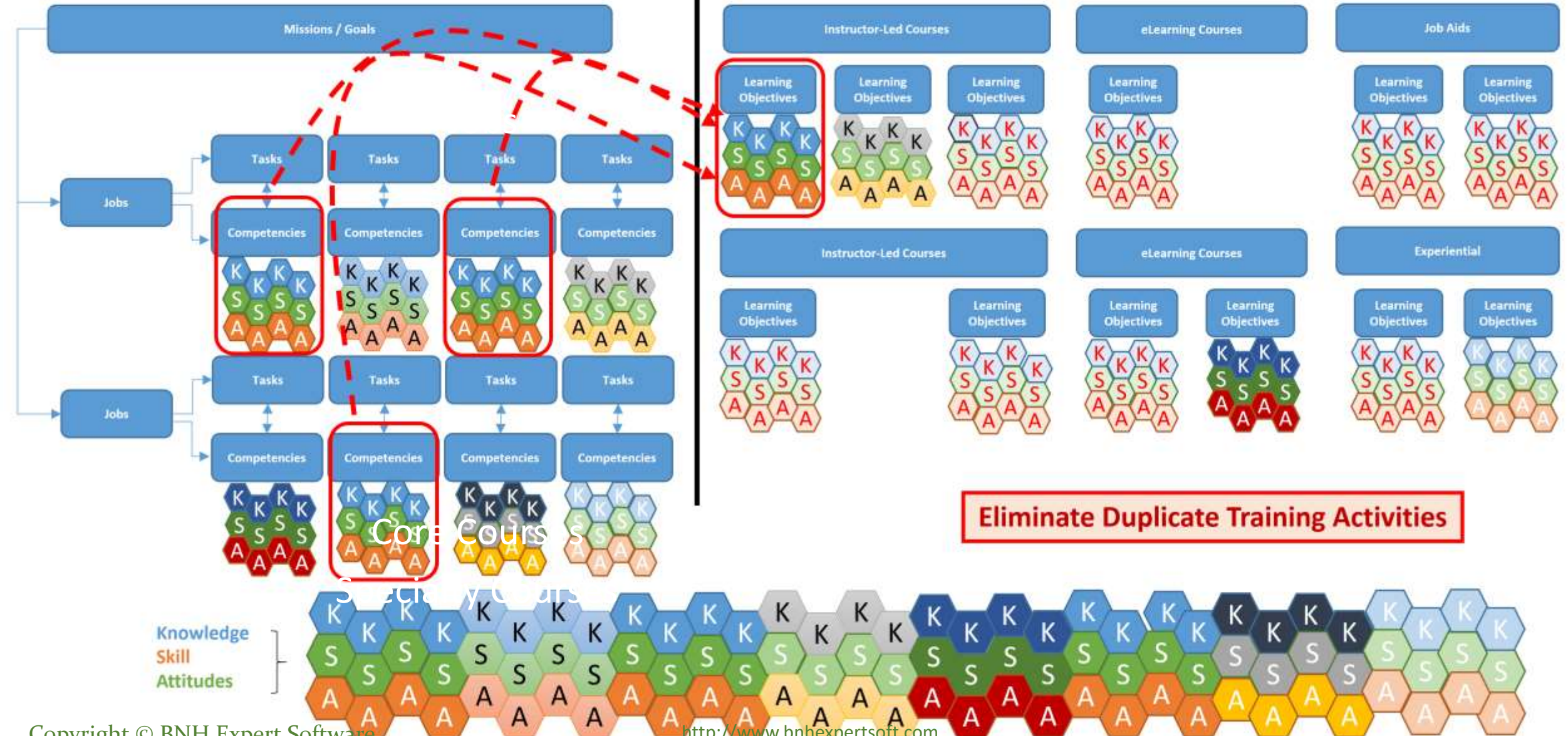
OPERATIONAL REQUIREMENTS

TRAINING ACTIVITIES



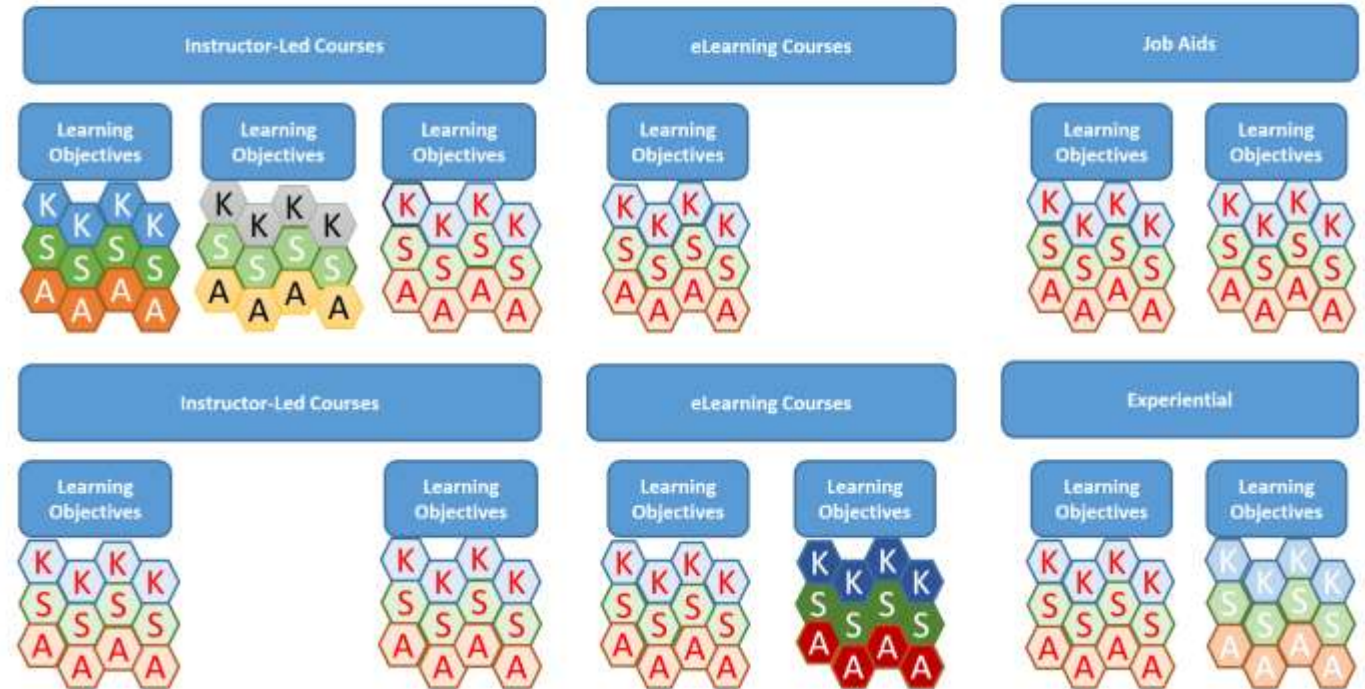
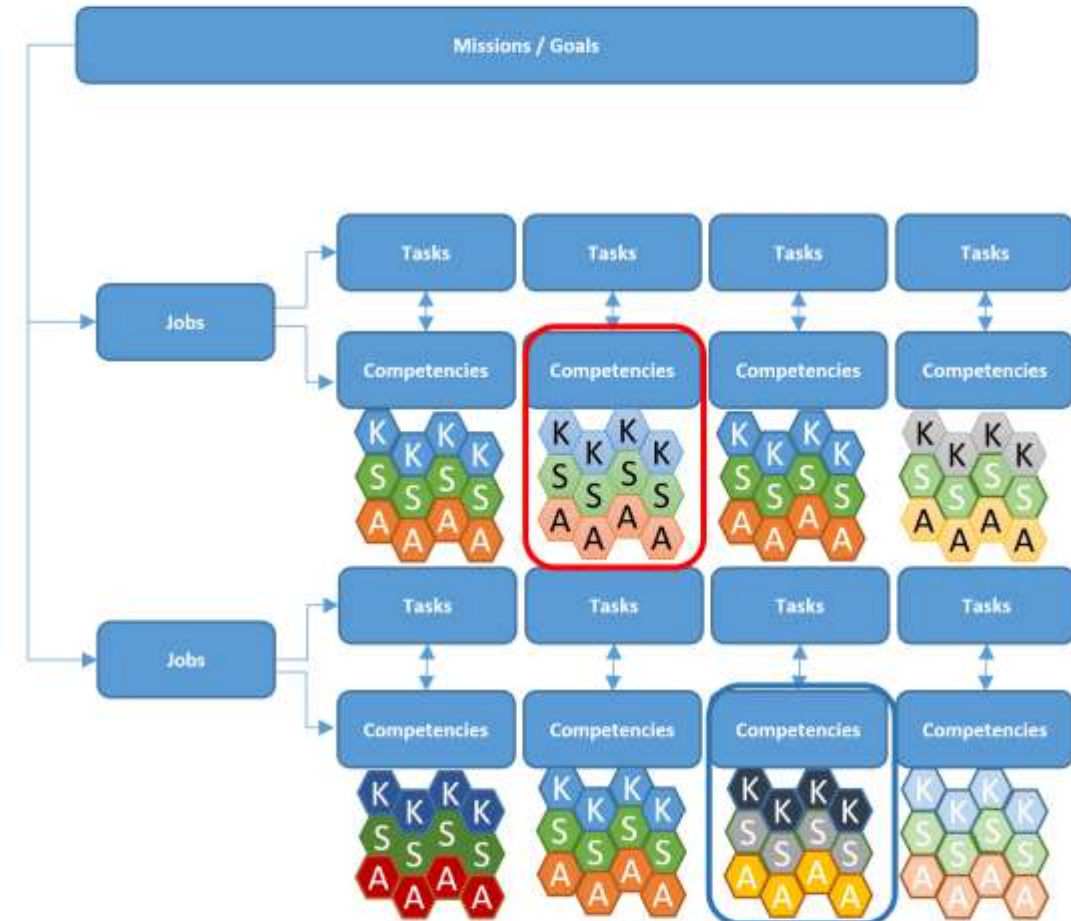
OPERATIONAL REQUIREMENTS

TRAINING ACTIVITIES



OPERATIONAL REQUIREMENTS

TRAINING ACTIVITIES



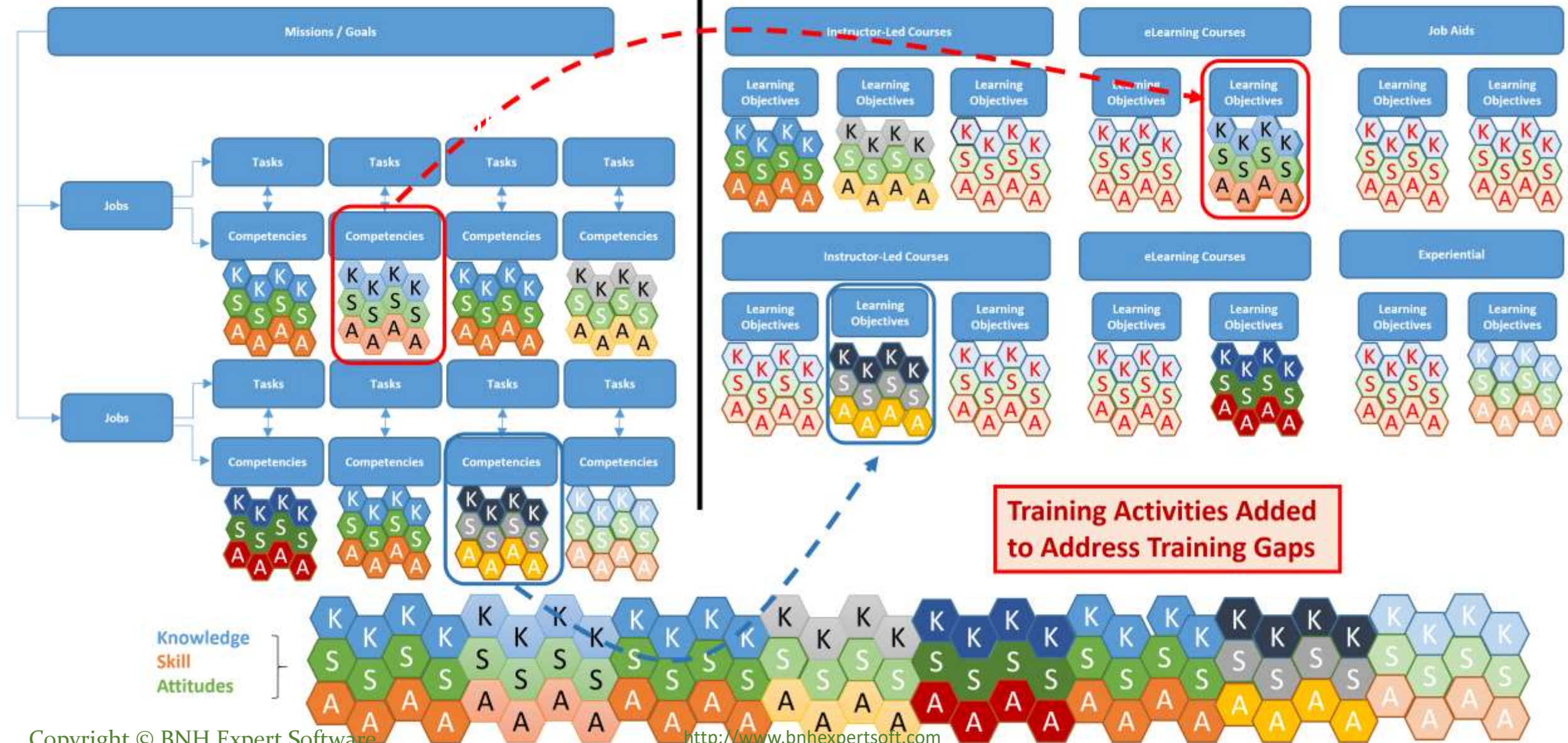
Training Does Not Address All Operational Requirements



OPERATIONAL REQUIREMENTS

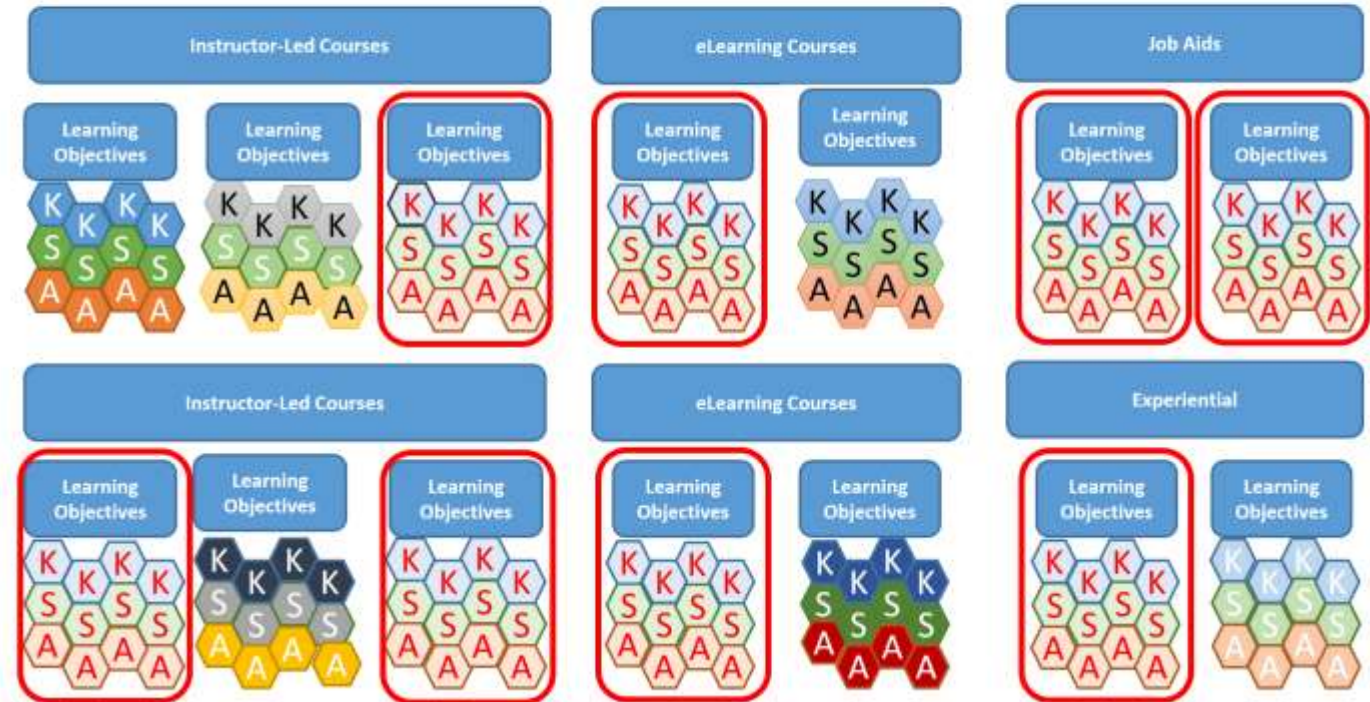
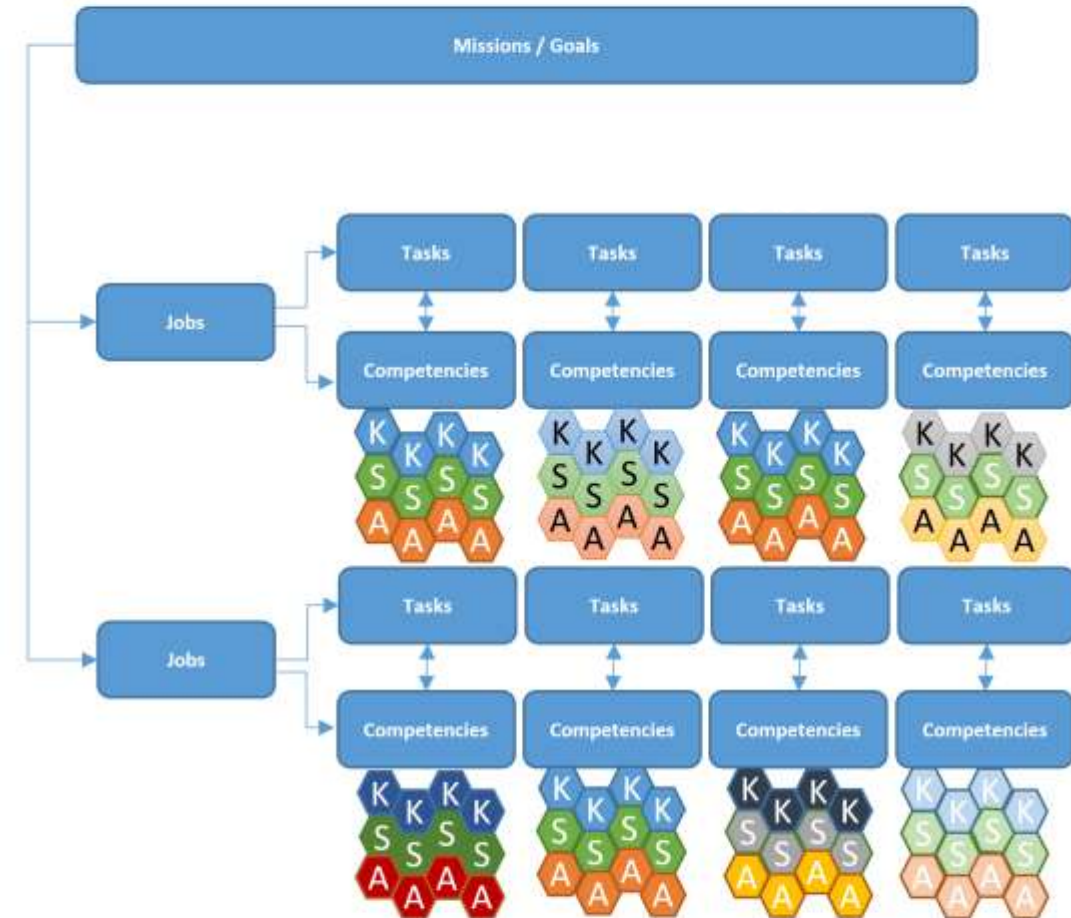
TRAINING ACTIVITIES

Effectiveness	<div style="width: 100%; height: 10px; background-color: #FFD700;"></div>
Costs/Resources	<div style="width: 100%; height: 10px; background-color: #90EE90;"></div>
Time to Competency	<div style="width: 100%; height: 10px; background-color: #FFDAB9;"></div>



OPERATIONAL REQUIREMENTS

TRAINING ACTIVITIES

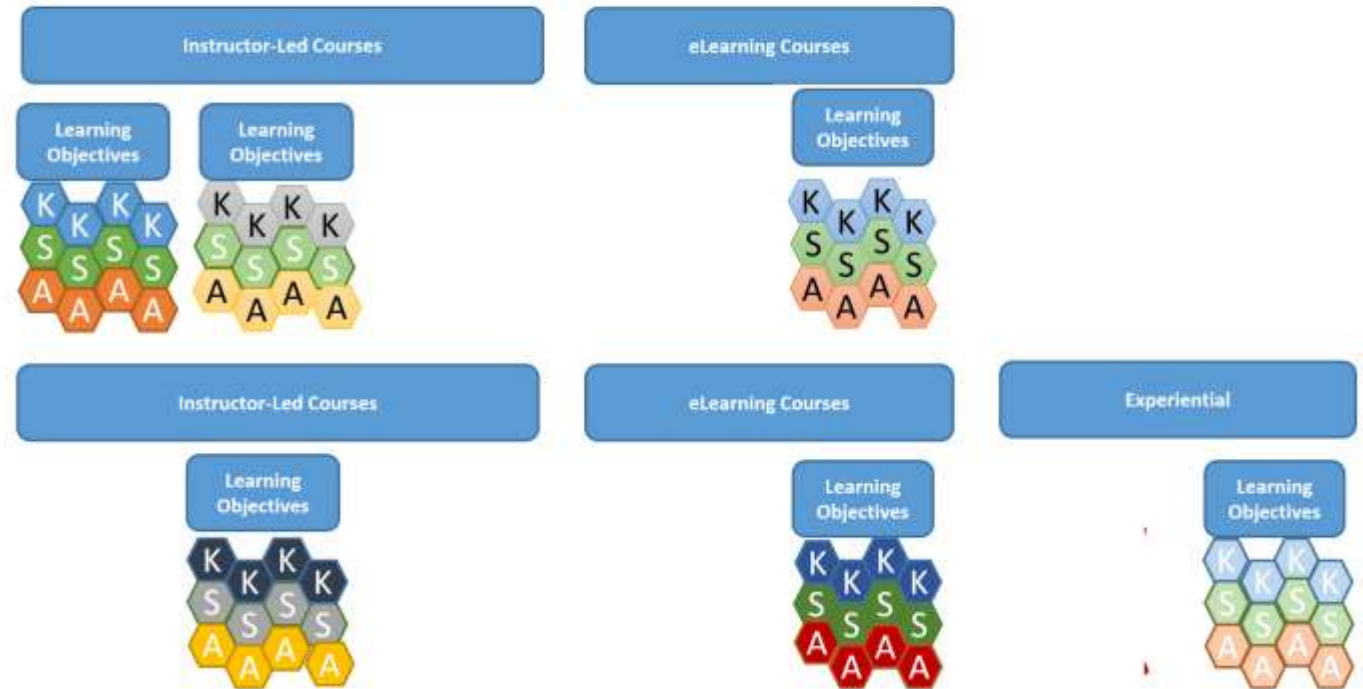
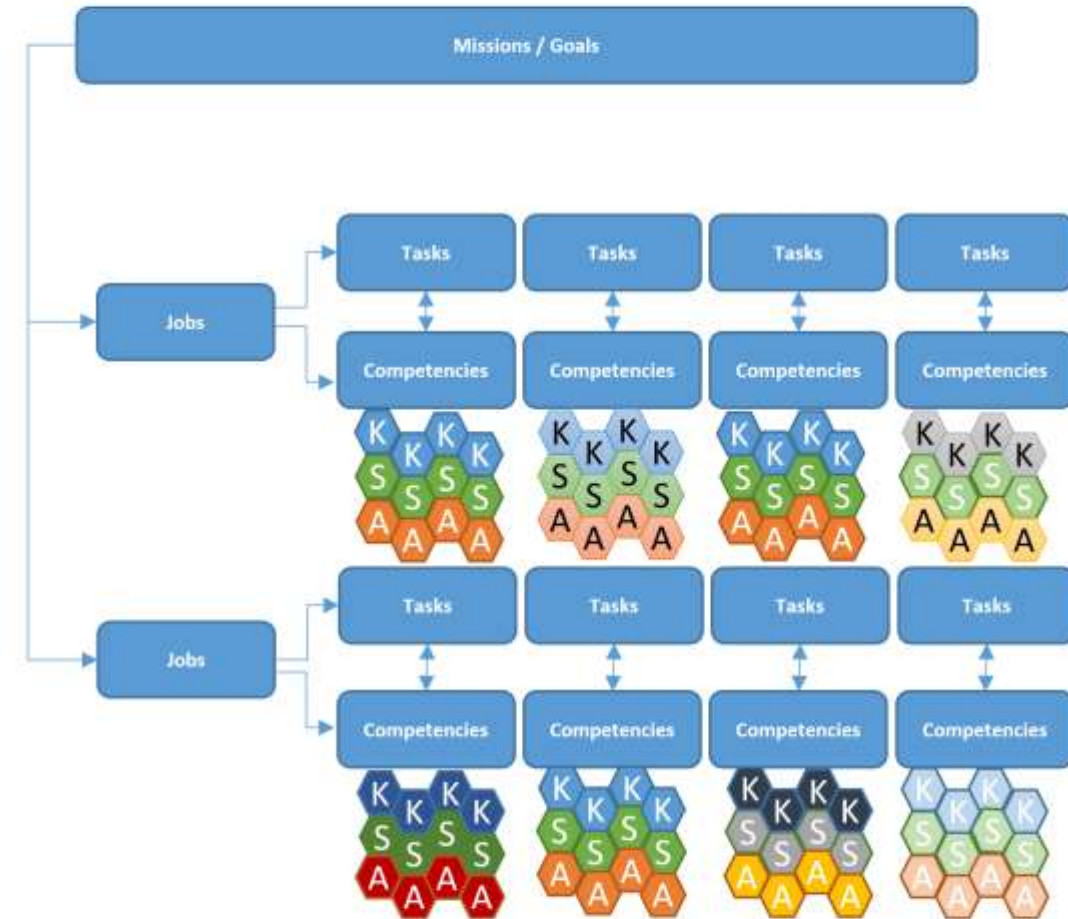


Training Activities That Do Not Address Operational Requirements



OPERATIONAL REQUIREMENTS

TRAINING ACTIVITIES



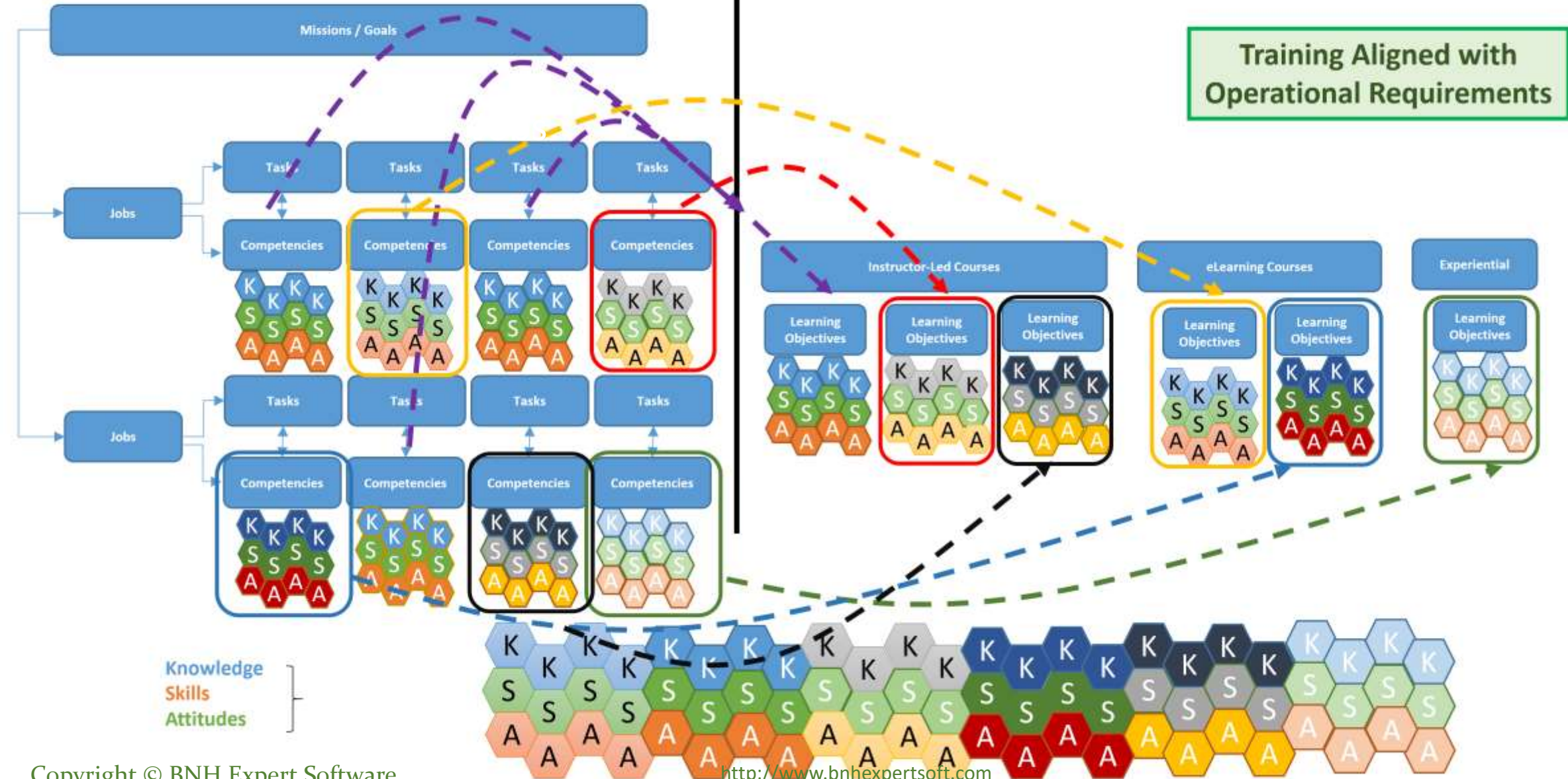
Eliminate Unwarranted Training

Knowledge
Skill
Attitudes



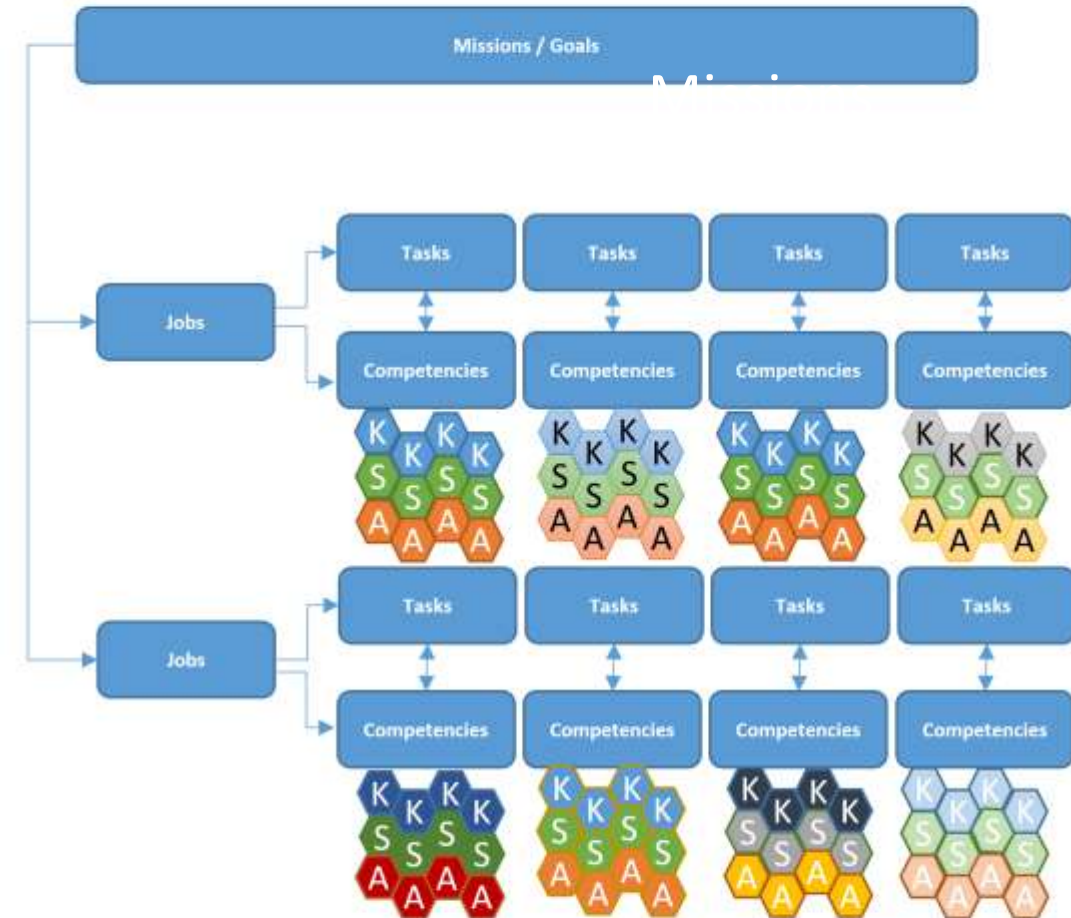
OPERATIONAL REQUIREMENTS

TRAINING ACTIVITIES



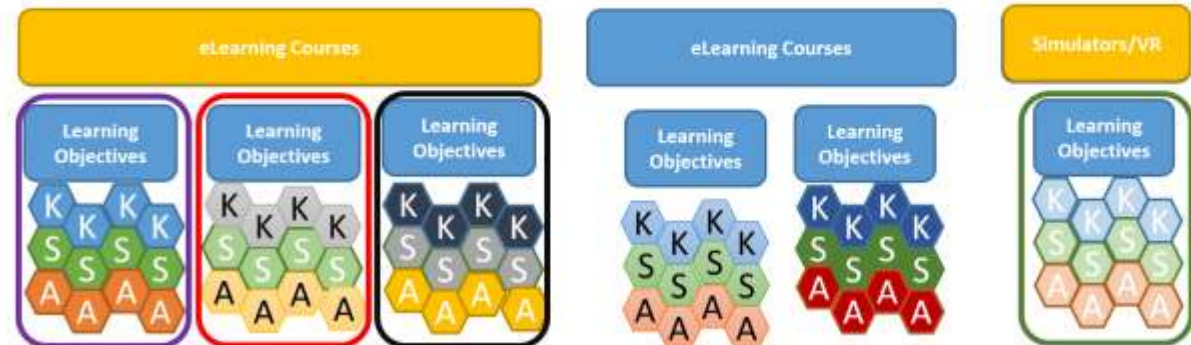
OPERATIONAL REQUIREMENTS

TRAINING ACTIVITIES



Knowledge
Skills
Attitudes

Leverage Training Technology



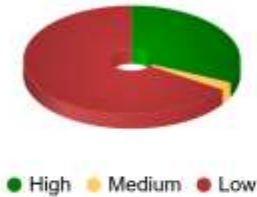
Benefit: Preserve Training Efficiency

- ❖ Present key performance indicators in dashboard format to continually monitor health of training organization.

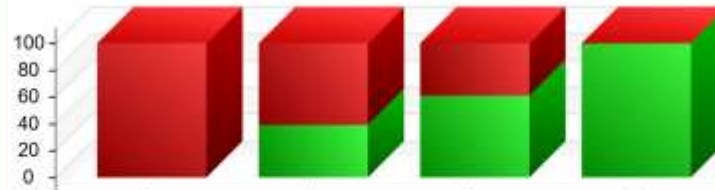


Counting what Counts ...

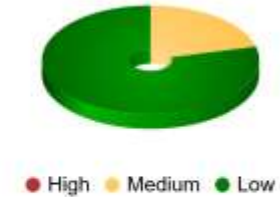
Training Alignment



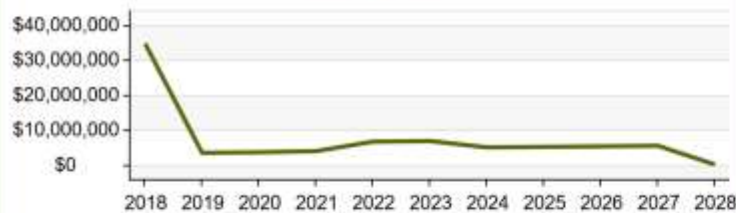
Training Gap



Training Duplication



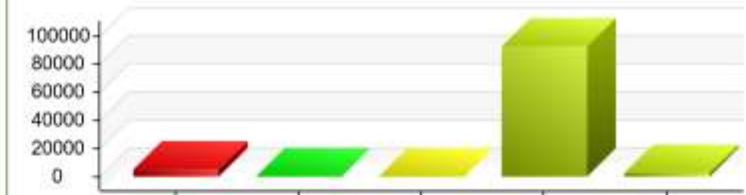
Training Cost



Cost Drivers



Training Cost per Individual



Personnel/Resources Utilization/Bottlenecks



Recommended Media

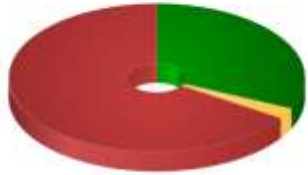


Time to Competency (hours)



Identify Training Creep (Unwarranted Training)

Training Alignment



● High ● Medium ● Low

Identify Training Creep Report

for Recommended Delivery Option

Identifies Training Activities with minimal or no value by mapping the Learning Objectives in each course to the KSAs, Objectives and Tasks requirements of the Target Audience (Job/Position).

Period: Jan 1, 2017 to Dec 31, 2017
Prepared by: BNH Director
Date: September 2017

Course Title	Reference Code	# of Trainees	Client	Target Audience	Group Title	Frequency	Delivery Media	Length (hrs)	Alignment
Decisionmaking	L01	100	ABC Corp	Online Managers	Knowledge	16	CBT	14	High
Conflict Resolution	L02	50	ABC Corp	Online Managers	Knowledge	8	ILT	4	Medium
Leveraging Diversity	L06	40	ABC Corp	Online Managers	Knowledge	6	ILT	4	Low
Team Building	L08	20	ABC Corp	Online Managers	Knowledge	3	ILT	6	Low
Change Management	G04	35	ABC Corp	Online Managers	Knowledge	5	ILT	4	Low
Total		245						32	

Decisionmaking

Learning Objective	Length	Knowledge/Skills	Performance Objective	Tasks	Job Title
Decisionmaking overview	1				Online Managers
Describe key elements of a goal	1	Describe key elements of a goal	Set Goals	Set Goals	Online Managers
Validate the viability of goals	1	Validate the viability of goals	Set Goals	Set Goals	Online Managers
Write clear and concise goals	1.5	Write clear and concise goals	Set Goals	Set Goals	Online Managers
Implement incentive system	1	Implement incentive system	Motivate Employees	Motivate Employees	Online Managers
Measure employee engagement	1	Measure employee engagement	Motivate Employees	Motivate Employees	Online Managers
Write clear and concise core values	1	Write clear and concise core values	Affirm Values	Affirm Values	Online Managers
Communicate importance of core values	1	Communicate importance of core values	Affirm Values	Affirm Values	Online Managers
Select appropriate venue for prioritizing goals	1	Select appropriate venue for prioritizing goals	Prioritize Goals	Prioritize Goals	Online Managers
Prioritize goals	1	Prioritize goals	Prioritize Goals	Prioritize Goals	Online Managers
Implement design	0.5	Implement design	Design Processes	Design Processes	Online Managers
Describe various implementation procedures	0.25	Describe various implementation procedures	Set Course of Action	Set Course of Action	Online Managers
Select appropriate implementation procedure	0.25	Select appropriate implementation procedure	Set Course of Action	Set Course of Action	Online Managers
Implement procedures	0.5	Implement procedures	Set Course of Action	Set Course of Action	Online Managers
Describe key steps in project management	0.25				Online Managers
Develop project management plan	0.5				Online Managers
Monitor progress	0.25				Online Managers
Describe various conflict resolution procedures	0.25	Describe various conflict resolution procedures	Resolve Conflicts	Resolve Conflicts	Online Managers
Select appropriate procedures	0.25	Select appropriate procedures	Resolve Conflicts	Resolve Conflicts	Online Managers
Implement conflict resolution procedures	0.25	Implement conflict resolution procedures	Resolve Conflicts	Resolve Conflicts	Online Managers
Validate outcomes	0.25	Validate outcomes	Resolve Conflicts	Resolve Conflicts	Online Managers

Learning Objectives that do not support a specific KSA, Objective, Task or Job may not be required - i.e., add value.

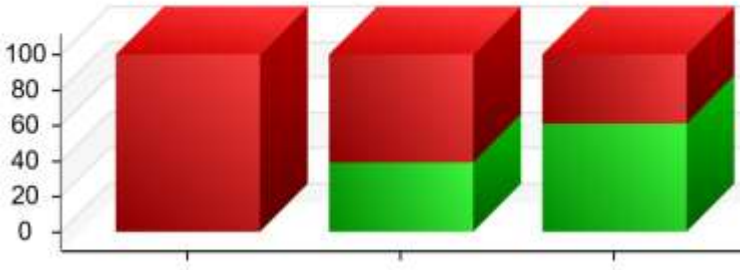
US Dept. of Treasury
Reduced credit training from 15 to 12 months.

Conflict Resolution

Learning Objective	Length	Knowledge/Skills	Performance Objective	Tasks	Job Title
Conflict Resolution overview	1				Online Managers
Describe various implementation procedures	0.25	Describe various implementation procedures	Set Course of Action	Set Course of Action	Online Managers
Select appropriate implementation procedure	0.25	Select appropriate implementation procedure	Set Course of Action	Set Course of Action	Online Managers
Implement procedures	0.5	Implement procedures	Set Course of Action	Set Course of Action	Online Managers
Describe key steps in project management	0.25				Online Managers
Develop project management plan	0.5				Online Managers
Monitor progress	0.25				Online Managers
Describe various conflict resolution procedures	0.25	Describe various conflict resolution procedures	Resolve Conflicts	Resolve Conflicts	Online Managers
Select appropriate procedures	0.25	Select appropriate procedures	Resolve Conflicts	Resolve Conflicts	Online Managers
Implement conflict resolution procedures	0.25	Implement conflict resolution procedures	Resolve Conflicts	Resolve Conflicts	Online Managers

Identify Training Gaps

Training Gap



In-service Support of Navy Reserve Ships. The mystery of the broken pumps!

Align Training with Needs Report

Identifies Training Gaps by mapping the KSAs needed to perform each Task and Sub Task to a specific Learning Objective in a Course.

Project: MRAP
Prepared by: BNH Director
Date: September 2017

Job	Task	Sub Task	Task Training Requirement	Task Training Priority	Performance Objective	Knowledge/ Skills	Learning Objective	Lesson	Course
Maintain the Leo 2 A4 CAN HBT and ancillary equipment.	Identify Leo 2 A4 CAN exterior components.	Train	High	Identify Leo 2 A4 CAN exterior components.	Safety points related to exterior components. Description, characteristics and performance of the Leo 2 A4 CAN HBT. Back deck lifting device bracket. Back deck lifting device lower mount with hopper bin. Cooling air intake grills. Tow cable mounting brackets. Various mounting bracket for pioneer tools, large track tools, and fuel transfer hose.	Describe safety concerns. Description, characteristics and performance of the Leo 2 A4 CAN HBT. Back deck lifting device bracket. Back deck lifting device lower mount with hopper bin. Cooling air intake grills. Tow cable mounting brackets.	Lesson 1 Driver MRAP Lesson 1 Driver MRAP Lesson 1 Driver MRAP Lesson 1 Driver MRAP Lesson 2 Driver MRAP Lesson 2 Driver MRAP	Lesson 1 Driver MRAP	Driver MRAP
					Describe servicing and storage of tools.	Describe servicing and storage of tools.	Lesson 2 Driver MRAP		
	Operate the main components of the fighting compartment.	Train	High	Operate the main components of the fighting compartment.	Perform safety procedures on the Leo 2 A4 CAN HBT turret. Safety during instruction. Turret components left loaders side. Turret components (roof, front, floor and rear). Crew commanders hatch. Turret components-gunnery station.	Perform safety procedures on the Leo 2 A4 CAN HBT turret. Describe safety procedures. Describe Turret components left loaders side. Describe Turret components (roof, front, floor and rear). Describe crew commanders hatch. Describe Turret components-gunnery station.	Lesson 3 Driver MRAP Lesson 3 Driver MRAP Lesson 3 Driver MRAP Lesson 4 Driver MRAP Lesson 4 Driver MRAP Lesson 4 Driver MRAP	Lesson 3 Driver MRAP	Driver MRAP
					Safety points related to driver compartment. Components of the drivers compartment. Lubrication system description and components. Heater and coolant ancillary equipment operation.	Describe safety points related to driver compartment. Describe components of the drivers compartment. Describe lubrication system and components.	Lesson 6 Driver MRAP Lesson 6 Driver MRAP Lesson 6 Driver MRAP		
	Operate the components of the driver compartment.	Train	High	Operate the components of the driver compartment.	Heater and coolant system maintenance. Operating the heating system.	Describe heater and coolant system maintenance requirements. Operate the heating system to include, starting and switching off the heater.	Lesson 7 Driver MRAP Lesson 7 Driver MRAP	Lesson 7 Driver MRAP	Driver MRAP
	Maintain the lubrication system.	Train	High	Maintain the lubrication system.	Safety points related to fuel system. Fuel system components. Fighting compartment. Hull underside: fuel drain access cover. Driver compartment. Perform refuelling procedures. Fuel system maintenance. Safety points related to electrical system.	Describe safety considerations to fuel system. Outline fuel system components. Describe fighting compartment. Describe the underside of the hull and how to access fuel drain cover. Describe driver compartment. Perform refuelling procedures. Maintain fuel system.	Lesson 7 Driver MRAP Lesson 7 Driver MRAP Lesson 8 Driver MRAP Lesson 8 Driver MRAP Lesson 8 Driver MRAP Lesson 8 Driver MRAP Lesson 9 Driver MRAP		
	Operate the heater and coolant system.	Train	High	Operate the heater and coolant system.	Electrical system components. Servicing electrical system Safety points (compressed air dangers).	Describe the electrical system components. Service the electrical system Describe the safety concerns with compressed air.	Lesson 9 Driver MRAP Lesson 9 Driver MRAP Lesson 9 Driver MRAP	Lesson 9 Driver MRAP	Driver MRAP
	Maintain the fuel system.	Train	High	Maintain the fuel system.	Safety equipment (PPE). Description of the combustion system and its components. Maintaining the combustion system.	Describe safety equipment (PPE). Describe the combustion system and its components.	Lesson 10 Driver MRAP Lesson 10 Driver MRAP Lesson 10 Driver MRAP		
	Maintain the electrical system.	Train	High	Maintain the electrical system.	Fire fighting ancillary equipment operation. Operation and drivers, reaction to a fire. Servicing fire fighting system.	Operate the fire fighting ancillary equipment. Outline drivers procedures to a fire. Service the fire fighting system.	Lesson 10 Driver MRAP Lesson 10 Driver MRAP Lesson 10 Driver MRAP	Lesson 10 Driver MRAP	Driver MRAP
	Maintain the combustion air system.	Train	High	Maintain the combustion air system.					
	Maintain the fire fighting system.	Train	High	Maintain the fire fighting system.					

KSAs not addressed by a specific LO may indicate a gap.

KSAs not addressed by a specific LO may indicate a gap.

KSAs not addressed by a specific LO may indicate a gap.

KSAs not addressed by a specific LO may indicate a gap.

Uncover Training Duplication

Training Duplication



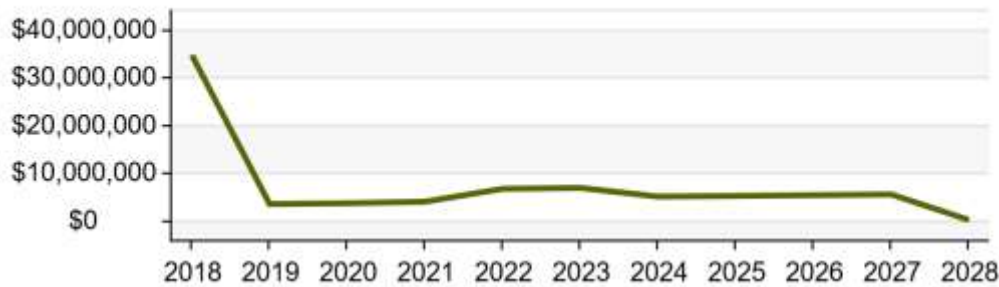
● High ● Medium ● Low

Knowledge/Skills	Learning Outcome	AVS Maintainer Course				ACS Maintainer Course				AVN Maintainer Course			
		Learning Objective	Length (hrs)	Lesson	Job	Learning Objective	Length (hrs)	Lesson	Job	Learning Objective	Length (hrs)	Lesson	Job
KSA 1 for A/C - Air Distribution: 21.21.01	Knowledge	LO 1 AVS for A/C - Air Distribution: 21.21.01	1.0	Lesson 1	AVS Maintainer					LO 1 AVN for A/C - Air Distribution: 21.21.01	1.0	Lesson 1	AVN Maintainer
KSA 2 for A/C - Air Distribution: 21.21.01	Knowledge	LO 2 AVS for A/C - Air Distribution: 21.21.01	2.0	Lesson 1	AVS Maintainer					LO 2 AVN for A/C - Air Distribution: 21.21.01	2.0	Lesson 1	AVN Maintainer
KSA 3 for A/C - Air Distribution: 21.21.01	Knowledge	LO 3 AVS for A/C - Air Distribution: 21.21.01	3.0	Lesson 1	AVS Maintainer					LO 3 AVN for A/C - Air Distribution: 21.21.01	3.0	Lesson 1	AVN Maintainer
KSA 7 for A/C - Air Distribution: 21.21.03	Psychomotor Skill	LO 7 AVS for A/C - Air Distribution: 21.21.03	7.0	Lesson 2	AVS Maintainer	LO 7 ACS for A/C - Air Distribution: 21.21.03	7.0	Lesson 2	ACS Maintainer	LO 7 AVN for A/C - Air Distribution: 21.21.03	7.0	Lesson 3	AVN Maintainer
KSA 8 for A/C - Air Distribution: 21.21.03	Psychomotor Skill	LO 8 AVS for A/C - Air Distribution: 21.21.03	8.0	Lesson 2	AVS Maintainer	LO 8 ACS for A/C - Air Distribution: 21.21.03	8.0	Lesson 2	ACS Maintainer	LO 8 AVN for A/C - Air Distribution: 21.21.03	8.0	Lesson 3	AVN Maintainer
KSA 9 for A/C - Air Distribution: 21.21.03	Psychomotor Skill	LO 9 AVS for A/C - Air Distribution: 21.21.03	9.0	Lesson 2	AVS Maintainer	LO 9 ACS for A/C - Air Distribution: 21.21.03	9.0	Lesson 2	ACS Maintainer	LO 9 AVN for A/C - Air Distribution: 21.21.03	9.0	Lesson 3	AVN Maintainer
KSA 10 for A/C - Air Distribution: 21.21.04	Attitude	LO 10 AVS for A/C - Air Distribution: 21.21.04	10.0	Lesson 3	AVS Maintainer	LO 10 ACS for A/C - Air Distribution: 21.21.04	10.0	Lesson 3	ACS Maintainer	LO 10 AVN for A/C - Air Distribution: 21.21.04	10.0	Lesson 4	AVN Maintainer
KSA 11 for A/C - Air Distribution: 21.21.04	Attitude	LO 11 AVS for A/C - Air Distribution: 21.21.04	11.0	Lesson 3	AVS Maintainer	LO 11 ACS for A/C - Air Distribution: 21.21.04	11.0	Lesson 3	ACS Maintainer	LO 11 AVN for A/C - Air Distribution: 21.21.04	11.0	Lesson 4	AVN Maintainer
KSA 12 for A/C - Air Distribution: 21.21.04	Attitude	LO 12 AVS for A/C - Air Distribution: 21.21.04	12.0	Lesson 3	AVS Maintainer	LO 12 ACS for A/C - Air Distribution: 21.21.04	12.0	Lesson 3	ACS Maintainer	LO 12 AVN for A/C - Air Distribution: 21.21.04	12.0	Lesson 4	AVN Maintainer
KSA 4 for A/C - Air Distribution: 21.21.02	Knowledge					LO 4 ACS A/C - Air Distribution: 21.21.02	4.0	Lesson 1	ACS Maintainer	LO 4 AVN for A/C - Air Distribution: 21.21.02	4.0	Lesson 2	AVN Maintainer
KSA 5 for A/C - Air Distribution: 21.21.02						LO for ACS - Air Distribution: 21.21.02	5.0	Lesson 1	ACS Maintainer	LO 5 AVN for A/C - Air Distribution: 21.21.02	5.0	Lesson 2	AVN Maintainer
KSA 6 for A/C - Air Distribution: 21.21.02						LO 6 ACS A/C - Air Distribution: 21.21.02	6.0	Lesson 1	ACS Maintainer	LO 6 AVN for A/C - Air Distribution: 21.21.02	6.0	Lesson 2	AVN Maintainer

**CDN Air Force ATTR
Identified 275 hours of common
training between ACS, AVN,
AWS & AVS**

Forecast Budget, Personnel & Resources

Training Cost



Forecast Training Budget

Period: 2017-01-01 to 2017-01-31
Prepared by: BNH Director
Date: September 2017

Total Direct & Indirect Costs for Requested Time Period

Course Title	Delivery Option	Length [hours]	Development Costs
Leadership: Decisiveness	CBT	4	\$30,000
Leadership: Developing Others	Webex	8	\$4,000
Leadership: Influencing/Negotiating	ILT	8	\$4,000
Leadership: Leveraging Diversity	CBT	4	\$21,000
Leadership: Team Building	CBT	4	\$21,000
General: Accountability	CBT	4	\$2,000
General: Change Management	ILT	4	\$2,000
General: Communication	CBT	4	\$2,000
Total		40	\$86,000

Forecast Personnel Requirements Report

Forecast Resources Requirements Report

Includes Direct & Indirect Costs for Recommended Delivery Option

Period: Jan 1, 2017 to Dec 31, 2017
Prepared by: BNH Director
Date: September 2017

Forecasts the type and number of classrooms, facilities and equipment needed to support training courses/activities over specified time period.

Instr	Resources	Time [hours]	Utilization Rate	Required #
Lead	Classroom	330	16.50%	0.17
Com	Computer Lab	376	18.80%	0.19
Proje				

Classroom

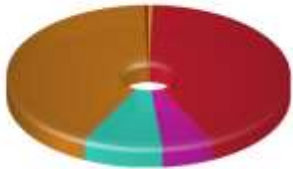
Instr	Course	Group Title	Delivery Option	Time	Utilization	Required
	Decisiveness Intro	Knowledge	ILT	238	11.90%	0.12
Deci	Influencing/Negotiating	Knowledge	ILT	64	3.20%	0.03
Deci	Team Building Intro	Knowledge	ILT	12	0.60%	0.01
Deve	Team Building Advanced	Knowledge	ILT	16	0.80%	0.01
Influ	Total			330	16.50%	0.17
Leve						
Leve						
Team						
Team						

Computer Lab

Instr	Course	Group Title	Delivery Option	Time	Utilization	Required
	Decisiveness Advanced	Knowledge	Webex	119	5.95%	0.06
Acco	Developing Others	Knowledge	Webex	80	4.00%	0.04
Acco	Leveraging Diversity Intro	Knowledge	CBT	22	1.10%	0.01
Char	Leveraging Diversity Advanced	Knowledge	CBT	19	0.95%	0.01
Char	Accountability Intro	Knowledge	Webex	22	1.10%	0.01
Com	Accountability Advanced	Knowledge	CBT	19	0.95%	0.01
Com	Change Management Intro	Knowledge	Webex	16	0.80%	0.01
Total	Total			376	18.80%	0.19

Uncover Cost Drivers

Cost Drivers



- Development
- Administrative
- Instructors
- Transmission
- Courseware
- Management
- Facilities
- Maintenance
- Hardware
- Trainees
- Operating
- Support

Forecast Training Budget Report

Period:
Prepared by:
Date:

2017-01-01 to 2017-01-31
BNH Director
September 2017

Forecasts direct and indirect costs needed to develop, deliver, administer, manage, maintain and support training courses/activities over specified time period.

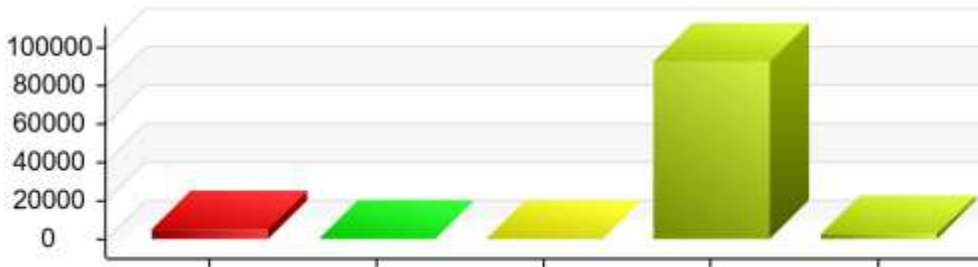
Total Direct & Indirect Costs for Requested Time Period

Course Title	Delivery Option	Length [hours]	Development Costs	Hardware Costs	Instructors Costs	Facilities Costs	Total
Leadership: Decisiveness	CBT	4	\$30,000	\$0	\$4,089	\$421	\$34,510
Leadership: Developing Others	Webex	8	\$4,000	\$0	\$4,780	\$0	\$8,780
Leadership: Influencing/Negotiating	ILT	8	\$4,000	\$0	\$3,730	\$192	\$7,922
Leadership: Leveraging Diversity	CBT	4	\$21,000	\$0	\$170	\$134	\$21,304
Leadership: Team Building	CBT	4	\$21,000	\$0	\$47	\$50	\$21,097
General: Accountability	CBT	4	\$2,000	\$0	\$1,368	\$192	\$3,560
General: Change Management	ILT	4	\$2,000	\$0	\$1,212	\$72	\$3,284
General: Communication	CBT	4	\$2,000	\$0	\$2,052	\$288	\$4,340
Total		40	\$86,000	\$0	\$17,448	\$1,349	\$104,797

CDN Air Force FPT
Maintenance of infrastructure
accounted for 55% of budget.

Compute Training Cost per Individual

Training Cost per Individual



Forecast Training Costs per Individual Report

Parameters: Courses
January 01, 2017 to December 31, 2017
Prepared by: BNH Director
Date: September 2017
Delivery Option: User Recommended

Forecasts the costs of developing specific skills/competencies within a specific time period. Compile and compute direct and indirect costs per trainee from relevant training courses/activities.

Pilot Training. How should we charge?

French as 2nd Language Training.
Centers of Excellence ...

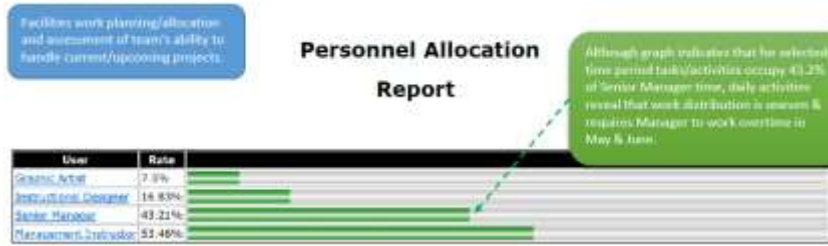
Course Title	Direct Costs per Trainee	Indirect Costs per Trainee	Total Costs per Trainee
Accountability	\$3	\$25	\$28
Change Management	\$4	\$107	\$111
Communication	\$0	\$162	\$162
Decisiveness	\$0	\$198	\$198
Influencing/Negotiating	\$13	\$95	\$108
Leveraging Diversity	\$35	\$49	\$84
Customer Service	\$14	\$28	\$42
Team Building	\$13	\$40	\$53
Total:	\$82	\$704	\$786

Identify Additional Capacity & Bottlenecks

Personnel/Resources Utilization/Bottlenecks



● No Conflict ● Conflict

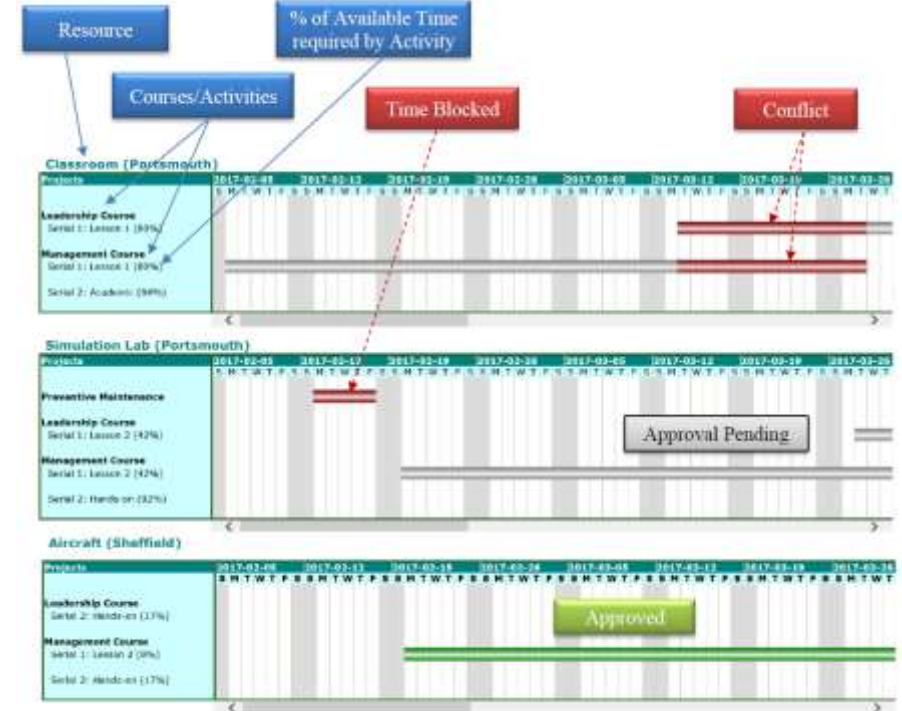


April 2017						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1 Hours: 0 Rate:
2 Hours: 0 Rate:	3 Hours: 4.24 Rate: 52.99%	4 Hours: 4.24 Rate: 52.99%	5 Hours: 4.24 Rate: 52.99%	6 Hours: 4.24 Rate: 52.99%	7 Hours: 4.24 Rate: 52.99%	8 Hours: 0 Rate:
9 Hours: 0 Rate:	10 Hours: 4.24 Rate: 52.99%	11 Hours: 4.24 Rate: 52.99%	12 Hours: 4.24 Rate: 52.99%	13 Hours: 4.24 Rate: 52.99%	14 Hours: 4.24 Rate: 52.99%	15 Hours: 0 Rate:
16 Hours: 0 Rate:	17 Hours: 4.24 Rate: 52.99%	18 Hours: 4.24 Rate: 52.99%	19 Hours: 4.24 Rate: 52.99%	20 Hours: 4.24 Rate: 52.99%	21 Hours: 4.24 Rate: 52.99%	22 Hours: 0 Rate:
23 Hours: 0 Rate:	24 Hours: 4.24 Rate: 52.99%	25 Hours: 4.24 Rate: 52.99%	26 Hours: 4.24 Rate: 52.99%	27 Hours: 4.24 Rate: 52.99%	28 Hours: 4.24 Rate: 52.99%	29 Hours: 0 Rate:
30 Hours: 0 Rate:						

Red Activities cannot be carried out during normal business hours.

May 2017						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1 Hours: 4.24 Rate: 52.99%	2 Hours: 4.24 Rate: 52.99%	3 Hours: 4.24 Rate: 52.99%	4 Hours: 4.24 Rate: 52.99%	5 Hours: 4.24 Rate: 52.99%	6 Hours: 0 Rate:
7 Hours: 0 Rate:	8 Hours: 8.48 Rate: 105.99%	9 Hours: 8.48 Rate: 105.99%	10 Hours: 8.48 Rate: 105.99%	11 Hours: 8.48 Rate: 105.99%	12 Hours: 8.48 Rate: 105.99%	13 Hours: 0 Rate:
14 Hours: 0 Rate:	15 Hours: 8.48 Rate: 105.99%	16 Hours: 8.48 Rate: 105.99%	17 Hours: 8.48 Rate: 105.99%	18 Hours: 8.48 Rate: 105.99%	19 Hours: 8.48 Rate: 105.99%	20 Hours: 0 Rate:
21 Hours: 0 Rate:	22 Hours: 8.48 Rate: 105.99%	23 Hours: 8.48 Rate: 105.99%	24 Hours: 8.48 Rate: 105.99%	25 Hours: 8.48 Rate: 105.99%	26 Hours: 8.48 Rate: 105.99%	27 Hours: 0 Rate:
28 Hours: 0 Rate:	29 Hours: 8.48 Rate: 105.99%	30 Hours: 8.48 Rate: 105.99%	31 Hours: 8.48 Rate: 105.99%			

Canadian Forces College.
Increasing throughput from
88 to 390 Officers!



Identify Viable & Efficient Delivery Options

Recommended Media



● Instructor-Led ● CBT/WBT/SG ● EPSS ● Training Devices
 ● Print ● Mobile Learning ● Conferencing ● Virtual Reality
 ● Tapes ● Social Learning ● Internet

Analyst Recommendations [Costs over life of course]

Course Title	Direct Costs	Indirect Costs	Total Cost	Delivery Options
Decisiveness	\$0	\$41,751	\$41,751	Webex
Developing Others	\$0	\$27,315	\$27,315	Webex
Accountability	\$0	\$9,319	\$9,319	ILT
Communication	\$0	\$13,699	\$13,699	CBT
Leadership	\$0	\$76,363	\$76,363	Webex
Influencing/Negotiating	\$0	\$23,612	\$23,612	ILT
Conflict Resolution	\$0	\$8,404	\$8,404	ILT
Change Management	\$0	\$8,422	\$8,422	ILT
Customer Service	\$0	\$8,422	\$8,422	ILT
Leveraging Diversity	\$0	\$12,064	\$12,064	ILT
Total:	\$0	\$229,371	\$229,371	

UK Army Live Fire Review
Identified through ADVISOR
£140 million in potential
savings in 10 years

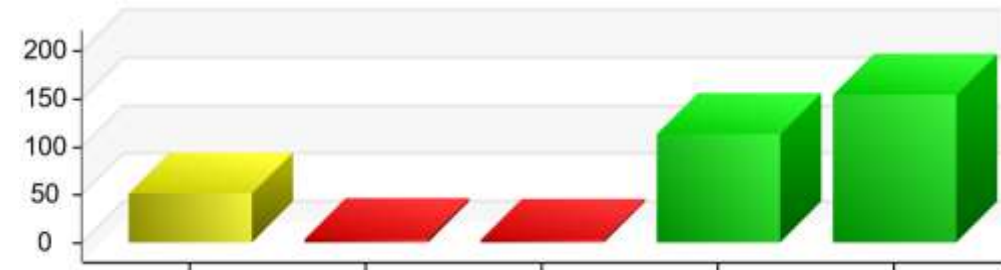
CDN Army LVC TS
Identified \$49.3 million in
potential savings through
ADVISOR over 10 years

Potential Savings [over life of course]

Course Title	Direct Saving	Indirect Saving	Total Saving	ROI
Decisiveness	\$558,333	-\$1,785	\$556,548	18.60%
Developing Others	\$212,500	\$1,200	\$213,700	17.73%
Accountability	\$0	\$12,975	\$12,975	11.64%
Communication	\$0	\$9,242	\$9,242	8.06%
Leadership	\$0	\$3,570	\$3,570	0.89%
Influencing/Negotiating	\$0	\$0	\$0	0.00%
Conflict Resolution	\$0	\$0	\$0	0.00%
Change Management	\$0	\$0	\$0	0.00%
Customer Service	\$0	\$0	\$0	0.00%
Leveraging Diversity	\$0	\$0	\$0	0.00%
Total:	\$770,833	\$25,202	\$796,035	

Compute Time to Competency per Job/Role

Time to Competency (hours)



Reduce time needed to detect IED explosives during war.

Training Requirements for Each Job Report

Client:
Prepared by:
Date:

ABC Corp
BNH Director
September 2017

Identifies Training Courses/Activities that each Job/Position is required to complete - including Media & Length.

Online Manager

Course Title	Reference Code	Group	Delivery Media	Length
Leadership: Decisiveness Intro	L01	Knowledge	CBT	4
Leadership: Leveraging Diversity Intro	L05	Knowledge	CBT	4
Leadership: Team Building Intro	L07	Knowledge	Webex	4
General: Accountability Intro	G01	Knowledge	Webex	4
General: Change Management Intro	G03	Knowledge	ILT	4
General: Communication Intro	G05	Knowledge	Webex	4
Total				24

Supervisor

Course Title	Reference Code	Group	Delivery Media	Length
Leadership: Developing Others	L03	Knowledge	ILT	8
Leadership: Influencing/Negotiating	L04	Knowledge	ILT	8
Leadership: Decisiveness Advanced	L02	Knowledge	ILT	4
Leadership: Team Building Advanced	L08	Knowledge	ILT	4
General: Accountability Advanced	G02	Knowledge	ILT	4
General: Change Management Advanced	G04	Knowledge	ILT	4
General: Communication Advanced	G06	Knowledge	ILT	4
Total				36

Capture/Monitor Trends ...



- ❖ Why should readiness be assessed at the end! When far better results can be achieved by good planning at the start and validation at the end.



Take the time to build a model, so you are ready when the time comes for change.





Questions



For more info:

J. (Jay) Bahlis, Ph.D., Eng.

1 (514) 745-4010 x 21

bahlis@bnhexpertsoft.com

www.bnhexpertsoft.com