

**Course Project – Statement of Work**

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Course.

### **Course Project – Statement of Work**

#### **Introduction**

The statement of work will detail SacTactical working project plan life cycle and implementation of the contracted military specifications of a tactical backpack with a with refrigerated pouch and radio module for the US Army's ground force and Special Operations units.

#### **Business need**

The U.S. Army ground is Special Forces awarded the contract to SacTactical in the amount of \$1,500,00 to prototype, develop and manufacture 250 state-of-the-art tactical backpacks with integrated technology features. These technology features would include a refrigerated pouch that must be built into the backpack and secure radio communications module. This backpack will need to adhere to tight military specifications and tolerances. The units must be developed with the strongest durable materials that will also facilitate specific strength-to-weight ratio and sustain tactical combat situations. The U.S. Army has specified prompt schedule of deliverables. 100 units within 12 months ARO (after receipt of order). They will expect 50 units every 3 months after first delivery and recently added additional 50 backpacks. That will need to be accumulated into the distribution and planning schedule. The U.S. Army has recognized SacTactical as one of the leading manufacturers in backpack technology. It is to SacTacticals upmost advantage and duty to supply the U.S. Army with our best quality work and effort to manufacturing these products. These backpacks will be used real life combat scenarios by real U.S. soldiers. Any flaws in the design and production can potentially cost U.S. lives.

**Product scope description**

The project awarded September of 2015 has exactly 1 year to develop 250 state-of-the-art tactical backpacks with integrated technology features. Delivery for 3 stated product deliverables are assigned to milestone schedule and implementation over 12-month period ARO (after receipt of order). Products will be distributed evenly by units to the ground forces and Special Operations of the US Army.

*Product will include:*

- Initial prototypes scheduled for user testing
- High tech light weight refrigerated pouch Technology
- Military standard equipment technical design four common tactical radio communications device.
- Durable design and construction using MIL-SPEC high grade materials
- Testing capabilities that can accommodate long-term combat scenarios, weather, heat and cold.
- Strength-to-weight ratio of materials and components to specification.

**Strategic plan**

- This contract awarded on September 1st, 2015 with a completion date of March 1st, 2017. Us contractor has informed us that the first Milestone payment 3 months delayed. During this time SacTactical will review the initial design specifications and start research and development on the first test prototype sketches and designs. Also, this time will allow us to develop the ideas we will need to allocate the equipment technical design standards and preliminary research of specified materials and components for the refrigeration and radio module. Also, our testing team can start preparing documenting design for engineering testing of the materials such as

Tensile, compression, ductility, impact, and non-destructive Test. This extra time can get us a head for the preliminary program review deadline.

- This will initially get our team ahead, according to the project management plan we can conduct the initial program review on November 16th, 2015 followed by subsequent program reviews every 6 months thereafter.
- Following the program reviews on June 16th, 2016 we can begin initial production on June 16th, 2016. During this program review we expect the U.S army to very satisfied with the product and proceed with production.
- 3 months after the U.S Army will receive the first delivery to distribute to the Ground and special forces on September 1st, 2016 followed by the third program review 1 month later on November 16th of 2016.
- On December 1st of 2016 SacTactical will be submitting the second delivery, On January 30th 1 month after we should be collecting our second milestone payment (given the program management schedule hasn't been changed due to the delay in the initial first milestone payment).
- On March 1st of 2017 SacTactical well then commence the last delivery of all complete units.
- Followed by final client payment on May 30th, 2017

## WBS

Here is the complete WBS from initial scope deign, prototyping , product manufacturing, product packaging, and delivery of goods to the U.S Army.

WBS	Title	Description	Start Date	End Date	Total estimated days	Point of Contact (POC)
1.0	<b>Develop Work Breakdown Structure (WBS)</b>	Description of work to be completed / milestone	1/5/16	1/5/16	1	
1.1	Review customer statement of work (SOW)	Read and review the statement of work	1/6/16	1/9/16	3	Project Manager
1.1.1	Identify all project deliverables and milestones	Highlight and identify all project deliverables and milestones associated with the project	1/6/16	1/9/16	0	Project Manager
1.2	Forward a copy of the customer statement of work to the project team	Forward a copy of the customer statement of work to all project team members	1/10/16	1/10/16	1	Project Manager
1.2.1	Begin development of the WBS	Develop the WBS	1/10/16	1/10/16	1	Project team
1.3	Project team review	Set up a SOW team review with the project team	1/13/16	1/13/16	1	Project team
1.3.1	Identify all top level work packages	Highlight and identify all top level milestones /	1/14/16	1/15/16	1	S.Pritchard
1.4	Identify all lower level work packages	Identify all work associated with the top level milestones	1/14/16	1/15/16	1	S.Pritchard
1.4.1	Project team approval	Set up a project team meeting for WBS review / approval	1/17/16	1/17/16	1	Project team
2.0	<b>Product Prototype</b>	Prototype development of initial backpack	1/10/15	1/12/15	1	Project team
2.1	Protype Research	pillimany research for materials	1/10/15	1/12/15		R&D Team
2.1.1	material research (kevlar, etc)	fabricks and backpack materials research	1/10/15	1/12/15	1	R&D Team
2.1.2	MIL-Spec refrigeration materials and compments	refrigeration compnents research	1/10/15	1/12/15	1	R&D Team
2.1.2	MII-Spec radio techniocl design standards	radio design compnent material research	1/10/15	1/12/15	1	R&D Team
2.2	Protype Backpack design		1/11/15	1/6/15		R&D Team
2.2.1	Design of backpack	build sketch and design of backpack	1/11/15	1/6/15	8	Design team
2.2.1	build protype of backpack	build out initial prototype of backpack v1.0	1/11/15	1/6/15	6	Design team
2.3	Refrigeration module prototype	protype rfrigerator module	1/11/15	1/6/15	10	Engineering team
2.3.1	intital compenent design	Design of refrigerator module	1/11/15	1/6/15	10	Engineering team
2.3.2	intital protype developemnt	Build and test refrigerator module	1/11/15	1/6/15		Engineering team
2.4	Radio module prototype	protype radio module	1/11/15	1/6/15	15	Engineering team
2.4.1	intital compenent design	Design radio module	1/11/15	1/6/15	15	Design team
2.4.2	intital protype developemnt	build and test radio module	1/11/15	1/6/15	2	Design team
2.5	Prototype Assembly	Assemble all compenets	1/11/15	1/6/15	2	Design team
2.5.1	assemble protype	assemble all compenets of the intial prototype	1/11/15	1/6/15	10	Design team
2.6	Submit UT(testing)	Customer testing	1/11/15	1/6/15	10	Design team
2.6.1	user feeddback	Submit and rate customer test US army	1/11/15	1/6/15	5	Design team
2.6.2	user changes	changes user wants to product	1/11/15	1/6/15	14	Design team
3.0	<b>Product manufacturing</b>		6/1/15	10/1/16	30	Operations team
3.1	Product supply order and recsive	revivables of raw materials	6/1/15	10/1/16	1	Operations team
3.1.1	supply inventory tracking	tracking of raw materials	6/1/15	10/1/16	1	Operations team
3.2	raw materail production and tracking	manufacturing line products and amterials usage	6/1/15	10/1/16	1	Operations team
3.2.1	tracking inventory	tracking and inventory of raw material	6/1/15	10/1/16	1	Operations team
3.3	finish protuct testing	final product engineering testing	6/1/15	10/1/16	1	project manager
4.0	<b>Product packing</b>	Packaging and finilization of the product	10/1/16	5/1/16	2	Packaging Team
4.1	product labeling	labing and inventory count of product	10/1/16	5/1/16	2	Packaging Team
4.1.1	skew tracking labeling	digital geo location tracking	10/1/16	5/1/16	5	Packaging Team
4.2	Product shipping and stock	final stock of deliverable items to ship	10/1/16	5/1/16	5	Packaging Team
4.2.1	resources mailing & shipping labels	adding shipping labels for distrubution	10/1/16	5/1/16	8	Packaging Team
5.0	<b>Delivery of products to US Army</b>	Customer product delivery	10/1/16	5/1/16	1	Shipping
5.1	Ground Forces	Delivery or product to ground forces	10/1/16	5/1/16	14	Shipping